

Anglia Square, Norwich  
Proposed Surface Water Drainage Strategy  
Rev A

Dated July 2022

Weston  
Homes



**Proposed Surface Water  
Drainage Strategy**

July 2022

**EAS**

**Anglia Square  
Regeneration  
Norwich  
Norfolk**

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## 1 Introduction

- 1.1 A hybrid planning application (Ref. 22/00434/F) (the Application) was submitted by Weston Homes (the Applicant) to Norwich City Council (NCC) on 1st April 2022 for the comprehensive redevelopment of Anglia Square and various parcels of mostly open surrounding land, (the Site), as shown within a red line on drawing 'ZZ-00-DR-A-01-0200'. The Application comprised a full set of technical documents to assess the potential impacts of the proposals, including an EIA which covered a number of topics. In respect of SuDS Drainage Strategy, this was described and explained in the Surface Water Drainage Strategy Report (Rev B dated 01.04.2022). Please refer to the original documents for further details.
- 1.2 Application Ref. 22/00434/F follows a previous application on a somewhat smaller development parcel, (NCC Ref. 18/00330/F) made jointly by Weston Homes Plc as development partner and Columbia Threadneedle Investments, (CTI), the Site's owner, for a residential-led mixed use scheme consisting of up to 1,250 dwellings with decked parking, and 11,000 sqm GEA flexible ground floor retail/commercial/non-residential institution floorspace, hotel, cinema, multi-storey public car park, place of worship, and associated public realm and highway works. This was subject to a Call-in by the Secretary of State (PINS Ref. APP/G2625/V/19/3225505) who refused planning permission on 12<sup>th</sup> November 2020, (the 'Call in Scheme').
- 1.3 Following submission of the Application Ref. 22/00434/F, and completion of the statutory consultation exercise, the Applicant has worked with NCC to review the consultation responses received from the local community, statutory consultees and other key stakeholders, so as to identify an appropriate response where considered relevant. As a result of consideration of these comments, as well as ongoing discussions with NCC, a number of changes to the Application as originally submitted are now proposed, including the reduction in height by 1 storey of Blocks A and D; realignment of basement and ground level car park accesses to Block A; repositioning of houses and apartments forming Block B; amendments to the housing mix; raising of Block C ground level to above 100year (+climate change) flood levels; distance between Block C and 4-10 Beckham place increased; elevational changes and repositioning of Block L (Stump Cross building); roof ridge and eaves on east side of Block M reduced in height; introduction of 2 storey podium between Blocks E and EF to provide larger car park; proposed crossings on Edward Street (opposite Beckham Place) and Pitt Street (by Tooley Lane removed; and landscape amendments. These changes comprise the Amended Application submitted in July 2022. Overall, the Amended Application continues to seek consent for up to 1,100 dwellings and up to 8,000 Sqm (NIA) non-residential floorspace and associated development. However, since the amendments result in minor changes to the full development description, an updated version of the full Amended Application description is contained in **Appendix A**.
- 1.4 The update to the Surface Water Drainage Strategy Report (Rev A Submission) sets out where necessary a response to the drainage related comments received on the Application as originally submitted, then describes how the design has been developed and adapted as a result of these and other comments, and finally considers the implications of the changes to the scheme now proposed.

- 1.5 A separate report, undertaken by Royal Haskoning DHV, deals with the flood risk assessment, hydraulic modelling study and impact assessment and should be read in conjunction with this report.
- 1.6 The Application Description and Location Plan are contained in **Appendix A**.
- 1.7 The proposed Outline/Full Planning Application Boundaries and Development Proposals are contained in **Appendix B**.
- 1.8 The changes in the Amended Application arising from the drainage related comments are summarised in the Table 1.0 below:

| Consultee Comment                                                                                                                                                                                                     | Response From Project Team                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Norfolk County Council - Lead Local Flood Authority<br>As per letter dated 26 <sup>th</sup> may 2022 – LLFA Ref: FW2022_0423                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 1. An updated Flood Risk Assessment (FRA), Drainage Strategy and Hydraulic Modelling Study that consistently provides information that interlinks each of the documents.                                              | Cross-references have been added throughout this document where appropriate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2. Within the FRA, Drainage Strategy, Hydraulic Modelling Study and yet to be developed detailed drainage design, we request these documents incorporates the evidence to address the issues identified in the Annex. | <p>The issues identified in the Annex are, largely, included within the following itemised comments and are addressed as follows. Other items in the Annex raised include:</p> <ul style="list-style-type: none"> <li>- <i>The site is within the River Wensum area and is subject to requirements relating to maintenance of nutrient neutrality.</i> This is being addressed by Others and a report shall be submitted in Rev A Submission.</li> <li>- <i>LLFA notes there is reference to Table 3, yet there is no Table 3.</i> There is no reference to Table 3 in this Drainage Report.</li> <li>- <i>Calculate greenfield and brownfield run-off rates using the latest datasets and hydrological methods.</i> The modified rational method was used to calculate brownfield runoff rates to be updated to FEH. It should be noted that Anglian Water have accepted a proposed maximum outfall rate of 242 l/s and the proposed drainage strategy meets this requirement.</li> <li>- <i>LLFA disagree with the accuracy of the sewer catchments defined in Appendix F stating that permeable areas shown are unlikely to be permeable.</i> The assessment undertaken by the LLFA would likely result in the existing brownfield run-off from the site increasing in rate and volume. The calculation undertaken is therefore conservative as it considers gravels and green areas as permeable, whilst the LLFA assessment would consider these as generating runoff.</li> <li>- <i>NPPF in para 4.1 incorrect</i> – this has been updated</li> <li>- <i>Evidence to support infiltration is not viable due to contamination and high groundwater.</i> The Royal Haskoning FRA report refers to borehole data which describes a</li> </ul> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <p>groundwater level of 3m bgl which was taken in May 2022. As this level was taken in drier months, it is considered likely that the water table will be elevated in the winter months. Considering that the base of a soakaway is to be 1m above the highest groundwater level (in accordance with CIRIA SuDS Manual, it is not possible to achieve this whilst also achieving suitable cover above the soakaway.</p> <p><i>-Residual risk of surface water pumps</i> – This has been addressed, see below.</p> <p><i>- Inconsistencies with Landscaping layout vs SuDS Layout regarding Green Roofs</i> – Proposed green roofs for the Full Planning Application areas are clearly identified.</p>                            |
| 2.1 The assessment of the greenfield and brownfield rates and volumes are required to be calculated accurately using the FEH in accordance with the LLFA Developer Guidance requirements and presented clearly and consistently within the technical reports.                                                                                                                                                                                                                                                                                                                            | The hydraulic model prepared for the Surface Water Drainage networks serving each catchment area now include FEH rainfall data as requested. See hydraulic model outputs in Appendix J of this report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2.2 Provide evidence to support the justification of increasing the greenfield discharge rate is required in accordance with the LLFA Developer Guidance.                                                                                                                                                                                                                                                                                                                                                                                                                                | The site is Brownfield and currently drains unrestricted and untreated into the existing Anglian Water surface water sewers which cross the site. As the site is Brownfield and practically 100% impermeable, it is not considered reasonable or appropriate to apply greenfield run-off rates for this Application. Anglian Water state that where this is not practical they will assess capacity based on the 1:1 year calculated rate. They therefore permit a maximum discharge rate of 242 l/s to manage all storms up to and including the 1:100yr + Climate Change Event. A Pre-Development Enquiry and Capacity Check from Anglian Water confirming this is contained in Appendix I of this report.                     |
| 2.3 Apply the latest (May 2022) Climate change guidance, which would require the application of a 45% climate change allowance to the 1% AEP and to apply the appropriate climate change allowance of 40% to the 3.3% AEP calculations.                                                                                                                                                                                                                                                                                                                                                  | The hydraulic models prepared for the Surface Water Drainage networks serving each catchment area now include the up-to-date Climate Change Allowances as requested. See hydraulic model outputs in Appendix J of this report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>2.4 Evidence that recent liaison with Anglian Water relevant to this new planning application that provides:</p> <p>2.4.1 confirmation from Anglian Water that no changes have occurred in the public network since 2017.</p> <p>2.4.2 Obtain recent drainage assessment from Anglian Water that relates to the current proposed development.</p> <p>2.4.3 Provide current set of DG5 records from Anglian Water.</p> <p>2.4.4 provide evidence of an “agreement in principle” with any third parties taking on surface water drainage management and maintenance responsibility.</p> | <p>2.4 Up-to-date sewer records have been obtained and an up-to-date pre-development enquiry has been received. Sewer records are contained in Appendix D and Pre-dev enquiry is contained in Appendix I.</p> <p>2.4.1 Up-to-date sewer records are contained in Appendix D.</p> <p>2.4.2 Up-to-date pre-development enquiry is contained in Appendix I.</p> <p>2.4.3 Anglian Water were able to confirm that there have been cases of sewer flooding in the vicinity of the site, but for data protection were unable to specify any locations. See email dated 22.06.2022 in Appendix M.</p> <p>2.4.4 Surface water drainage serving private catchments will be the responsibility of an elected Management and Management</p> |

|                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                            |
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|                                                                                                                                                                                                                                                                                                                                                                                                                  | Company, whom shall be appointed by the Site Owner. Any adopted sewer or diverted adopted sewers within the red-line boundary shall be the responsibility of Anglian Water.                                                                                                                                                                                                                                |
| 2.5 Provide a more in-depth consideration and assessment of rainwater harvesting and re-use opportunities.                                                                                                                                                                                                                                                                                                       | See Section 4 para. 4.6 and 4.7.                                                                                                                                                                                                                                                                                                                                                                           |
| 2.6 Provide a more in-depth consideration and assessment of groundwater flood risk.                                                                                                                                                                                                                                                                                                                              | Addressed in Royal Haskoning DHV FRA Report.                                                                                                                                                                                                                                                                                                                                                               |
| 2.7 Provide a more in-depth consideration and assessment of sewer flood risk.                                                                                                                                                                                                                                                                                                                                    | Addressed in Royal Haskoning DHV FRA Report.                                                                                                                                                                                                                                                                                                                                                               |
| 2.8 Provide clarification on the retention of surface water runoff on the site and whether this is actually the provision of either blue or green roofs not previously included in the surface water drainage calculations.                                                                                                                                                                                      | No blue-roofs are proposed on site. Green-roofs are to be provided. In terms of drainage calculations. It is considered robust to assume green-roofs are saturated and will not provide any attenuation for large storm events. As such, the 1:100yr + Climate Change hydraulic modelling assumes all roof areas are impermeable. This provides a conservative assessment of required attenuation volumes. |
| 2.9 Provide clarification on the water depth for the return periods given at Edward Street Service Yard as there are significant discrepancies.                                                                                                                                                                                                                                                                  | Addressed in Royal Haskoning DHV FRA Report.                                                                                                                                                                                                                                                                                                                                                               |
| 2.10 Prepare and provide a full detailed drainage design that includes all the proposed elements of the surface water management system. This includes clarification of the design details (including plans, modelling, calculations and supporting information in accordance with the LLFA's Developer Guidance) of suitable drainage featured, such as green/blue roofs, bio-retention features and tree-pits. | See Appendix K.                                                                                                                                                                                                                                                                                                                                                                                            |
| 2.11 Provide the proposed discreet drainage catchment areas and supporting information on a plan for each of the proposed systems in accordance with the LLFA Developer Guidance.                                                                                                                                                                                                                                | See Appendix K.                                                                                                                                                                                                                                                                                                                                                                                            |
| 2.12 Undertake an assessment that demonstrates how the proposed SuDS systems meets the four pillars of SuDS in accordance with the LLFA Developer guidance and in relation to Policy E9 of the Local Flood Risk Management Plan.                                                                                                                                                                                 | See paragraphs 5.4, 5.9, 5.13 and 5.16.                                                                                                                                                                                                                                                                                                                                                                    |
| 2.13 Undertake a further assessment and consideration of the carbon impact of additional pumps operating on this site is recommended in accordance with Policy E8 of the Local Flood Risk Management Plan.                                                                                                                                                                                                       | A further assessment of the carbon impact of pumps has been undertaken by the M&E Engineer and is included within their report.                                                                                                                                                                                                                                                                            |
| 2.14 Prepare a surface water drainage phasing plan for the development.                                                                                                                                                                                                                                                                                                                                          | Weston Homes have provided a Draft Phasing Strategy document which is included in the Rev A Submission. This shows the following blocks to be delivered in each phase.<br>Phase 1 = Block A, B, C, D and M<br>Phase 2 = Block K/L and J3<br>Phase 3 = Block H, G and J<br>Phase 4 = Block E and F                                                                                                          |

|                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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|                                                                                                                                                                                                                                                                                                                                                                                       | <p>The proposed drainage strategy allows for Blocks B, C, D, E, F, G, J and H to be managed by stand-alone drainage systems that do not rely on other phases to be built.</p> <p>System 4 managing Blocks A, M, J3 and K/L shall be delivered in Phases 1 and 2 and as such it is anticipated that a temporary drainage network, comprising as much of the designed drainage for Block A and M shall be installed in Phase 1 and shall be linked with Block K/L and J3 in Phase 2. As these phases follow each-other, it is considered suitable to allow for one drainage system to cover two phases.</p> |
| 2.15 Provide updated water quality assessment information that acknowledge the inclusion of all elements of the SuDS system.                                                                                                                                                                                                                                                          | See Section 4 showing water quality treatment features for each catchment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2.16 Provide further information regarding the water quality management approaches required for the construction of the proposed development                                                                                                                                                                                                                                          | See Section 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 2.17 Identify and assess the residual risk and provide suitable mitigation associated with the management of pumps and the attenuation tanks.                                                                                                                                                                                                                                         | See paragraphs 4.75 to 4.77.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 2.18 provide a site layout plan that demonstrates all surface water drainage features sized appropriately and to ensure suitable space is available within the proposed development The design should be in accordance with both the LLFA Developer Guidance, the Ciria Suds manual, the building regulations and other relevant local and national guidance, practices and policies. | See Appendix K.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2.19 Provide detailed information of the design and operation of the flood barrier for inclusion within the hydraulic model as part of the full application.                                                                                                                                                                                                                          | Addressed in Royal Haskoning DHV FRA Report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 2.20 Update the hydraulic model and the drainage strategy to ensure they are consistent with other technical disciplines' submissions.                                                                                                                                                                                                                                                | See Appendix J and K.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 2.21 An assessment of the surface water treatment required for all elements of the proposed development to determine whether the SuDS system is providing an appropriate amount of water quality treatment.                                                                                                                                                                           | See updated Section 4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 2.22 A surface water drainage design that includes a site plan with appropriately sized SuDS Features and conveyance with both the LLFA Developer Guidance and the Ciria SuDS Manual.                                                                                                                                                                                                 | See Appendix K.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2.23 Identification of the structures to be placed below ground and an assessment of the risk of groundwater flooding and specific mitigation measures to manage the groundwater flood risk to those structures where required.                                                                                                                                                       | Addressed in Royal Haskoning DHV FRA Report.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 2.24 A Maintenance and Management Plan detailing the activities required to manage the proposed SuDS including confirmation of ownership, maintenance responsibilities and in principle agreements.                                                                                                                                                                                   | See updated Section 6.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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| 2.25 Provide an updated assessment of the suitability of the different types of SuDS components on the site.                                                                                                                                                                                                                                                                                                                                                                                             | See Table 4.1.                                                                                                                                             |
| 2.26 Provide further evidence to support the viability of the Edward Street Service Yard residual risk mitigation and provide clarification on whether an automated flood barrier could be installed.                                                                                                                                                                                                                                                                                                    | Addressed in Royal Haskoning DHV FRA Report.                                                                                                               |
| 2.27 The Emergency Flood Plan should be prepared in accordance with the ADEPT guidance (2019), available at <a href="https://adeptnet.org.uk/floodriskemergencyplan">https://adeptnet.org.uk/floodriskemergencyplan</a> and demonstrate ongoing liaison with the relevant Emergency Planning Team                                                                                                                                                                                                        | Addressed in Royal Haskoning DHV FRA Report. It is understood that The Emergency Planning Team (Teresa Cannon) has confirmed that this can be Conditioned. |
| 2.28 An assessment of the potential to install some flow and level monitoring gauges to enable the site manager to monitor and manage the flood risk on site.                                                                                                                                                                                                                                                                                                                                            | Addressed in Royal Haskoning DHV FRA Report.                                                                                                               |
| 2.29 Update the assessment of the residual flood risks within the FRA for the proposed development and its components.                                                                                                                                                                                                                                                                                                                                                                                   | Addressed in Royal Haskoning DHV FRA Report.                                                                                                               |
| 2.30 Inclusion of an updated Exceedance Flow Routes Plan for the site with proposed finished floor levels marked on.                                                                                                                                                                                                                                                                                                                                                                                     | Figure 1 in Section 4 updated to show levels as requested.                                                                                                 |
| 2.31 Both the FRA and the Drainage Strategy require updating to address the large number of statements and conjecture that are not supported by evidence. These statements and assessment need to be evidence based for the statements to be validated.                                                                                                                                                                                                                                                  | Noted and actioned.                                                                                                                                        |
| 2.32 Provide a proposed drainage design with supporting evidence (plans, calculations, modelling and detailed design) that provide evidence of inclusion and support the proposed offsite drainage of surface water for the car park entrance and the service yard entrance on Edward Street. The evidence should demonstrate that the mitigation is appropriate, operable and “agreed in principle” by Anglian Water along with identifying who will be responsible for the maintenance and management. | Addressed in Royal Haskoning DHV FRA Report.                                                                                                               |
| 2.33 Provide clarifications from the applicant on whether the inclusion of flood doors have been considered on the proposed development.                                                                                                                                                                                                                                                                                                                                                                 | Addressed in Royal Haskoning DHV FRA Report.                                                                                                               |
| 2.34 Provide discussion on whether an alternative design approach and location was considered before placing the car park entrance ramp on Edward Street.                                                                                                                                                                                                                                                                                                                                                | Addressed in Royal Haskoning DHV FRA Report.                                                                                                               |
| 2.35 Provide an assessment of flow entering the basement car park should mitigation not be installed or the failure of mitigation measures.                                                                                                                                                                                                                                                                                                                                                              | Addressed in Royal Haskoning DHV FRA Report.                                                                                                               |
| 2.36 Provide evidence the proposed development scheme that in accordance with NPPF where “the development should be made safe for its lifetime without increasing flood risk elsewhere.”                                                                                                                                                                                                                                                                                                                 | Addressed in Royal Haskoning DHV FRA Report.                                                                                                               |
| 2.37 Address all LLFA queries given in the attached Annex.                                                                                                                                                                                                                                                                                                                                                                                                                                               | See point 2. above.                                                                                                                                        |
| 3. The hydraulic modelling report and model requires updating to include.                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                            |

|                                                                                                                                                                                                                                 |                                              |
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| 3.1 confirmation that the key parameters (URBEXT, Catchment area, etc.) have been checked and the parameters where appropriate adjusted accordingly.                                                                            | Addressed in Royal Haskoning DHV FRA Report. |
| 3.2.1 Includes sewers in the hydraulic model for the sewer network affecting the parts of the site included in this application to support the full application that demonstrates there is no increase in flood risk elsewhere. | Addressed in Royal Haskoning DHV FRA Report. |
| 3.2.2 Is extended to cover the full catchment to ensure the inflows are calculated correctly, or includes sensitivity testing showing that these inflows do not impact flood risk at the site.                                  | Addressed in Royal Haskoning DHV FRA Report. |
| 3.3 Provide clarification on whether Anglian Water has been contacted to supply sewer data. This should be requested and included where interactions with the sewer system are likely to impact flooding.                       | Addressed in Royal Haskoning DHV FRA Report. |
| 3.4 The inclusion of information regarding the onset of flooding and its associated duration for vulnerable locations across the site including the basement car park entrance and the service yard and loading facilities.     | Addressed in Royal Haskoning DHV FRA Report. |

## 2 Policy Framework and Pre-Application Comments

### Local Policy

#### Greater Norwich Local Plan

*"We are working with Broadland District Council, Norfolk County Council and South Norfolk District Council to prepare the Greater Norwich Local Plan (GNLP).*

*The GNLP will build on the long-established joint working arrangements for Greater Norwich which have delivered the current Joint Core Strategy (JCS) for the area. The JCS plans for the housing and job needs of the area to 2026 and the GNLP will ensure that these needs continue to be met to 2036.*

*The GNLP will include strategic planning policies and will also allocate individual sites for development. It will aim to ensure that new homes and jobs are delivered and the environment is protected and enhanced, promoting sustainability and the effective functioning of the area."*

- 2.1 The GNLP was submitted to the Secretary of State for independent examination on 30<sup>th</sup> July 2021. The emerging plan allocates the Anglia Square site (GNLP0506) for Mixed Use Allocation.
- 2.2 Emerging Policy: *GNLP Policy 2 would be anticipated to reduce the risk of fluvial flooding that may arise as a result of development, through the requirement to carry out flood risk assessments, and incorporate sustainable drainage measures.*
- 2.3 Emerging Policy : *GNLP Policy 2 would be anticipated to mitigate the risk of surface water flooding that may arise as a result of development, through the requirement for development to incorporate sustainable drainage measures and contribute to the green infrastructure cover.*
- 2.4 An indicative drainage plan incorporating sustainable drainage (SuDS) is included in Section 7, detailing how surface water will be managed on the site and the rationale for the approaches used. Surface water runoff from the site will be restricted as far as possible to ensure that the risk of flooding both to the site and elsewhere is minimised, taking into account the effects of climate change.

#### Development Management Policies Local Plan

- 2.5 The Development Management Policies Plan (DM policies) sets out policies which will apply across the whole city, as well as policies which apply in designated areas.

**Policy DM5** – Planning effectively for flood resilience' details the policy for flooding, sustainable drainage and surface water flooding and surface treatment. The policy states:

*"Developers will be required to show that the proposed development:*

- *would not increase the vulnerability of the site, or the wider catchment, to flooding from surface water run-off from existing or predicted water flows; and*
- *would, wherever practicable, have a positive impact on the risk of surface water flooding in the wider area.*

*Development must, as appropriate, incorporate mitigation measures to reduce surface water runoff, manage surface water flood risk to the development itself and to others, maximise the use of permeable materials to increase infiltration capacity, incorporate on-site water storage and make use of green roofs and walls wherever reasonably practicable.*

*The use of permeable materials, on-site rainwater storage, green roofs and walls will be required unless the developer can provide justification to demonstrate that this would not be practicable or feasible within the constraints or configuration of the site, or would compromise wider regeneration objectives."*

- 2.6 The landscaping of the development in terms of surface water management is also considered in Policy DM5. This states:

*"Development proposals will be required to maximise the use of soft landscaping and permeable surfacing materials unless the developer can provide justification to demonstrate that this is not feasible.*

*Where permission is required, proposals involving the provision of new or replacement paved and other impermeable surfaced areas will only be permitted:*

- *in areas of impermeable soils as identified in Appendix 1;*
- *in other areas where it can be demonstrated that permeable surfaces are not practicable due to poor soil infiltration capacity, high groundwater levels or risk of subsidence; and*
- *in areas with soils with average or good infiltration capacity, where it can be demonstrated that there is an exceptional and overriding justification for such surfaces.*

*In cases where poor soil infiltration capacity or other factors preclude the use of permeable surfacing materials, development proposals should seek to manage and minimise the impact of surface water run-off by suitable measures for water storage on-site."*

- 2.7 An indicative drainage plan incorporating sustainable drainage (SuDS) is included in Section 7, detailing how surface water will be managed on the site and the rationale for the approaches used. Surface water runoff from the site will be restricted as far as possible to ensure that the risk of flooding both to the site and elsewhere is minimised, taking into account the effects of climate change.

### **Natural England and Nutrient Neutrality Assessments**

- 2.8 In March 2022, Natural England issued a letter to Local Planning Authorities, Environment Agency and all Heads of Planning and Chief Executives to give advice for development proposals with the potential to affect water quality resulting in adverse nutrient impacts on habitats and sites. The letter provides advice on the assessment of new plans and projects under Regulation 63 of the Habitats Regulations. The purpose of that assessment is to avoid adverse effects occurring on habitats sites as a result of the nutrients released by those plans and projects. This advice does not address the positive measures that will need to be implemented to reduce nutrient impacts from existing sources, such as existing developments, agriculture, and the treatment and disposal of wastewater. It proposes that nutrient neutrality might be an approach that planning authorities wish to explore.
- 2.9 The following background is given:

*“In freshwater habitats and estuaries, poor water quality due to nutrient enrichment from elevated nitrogen and phosphorus levels is one of the primary reasons for habitats sites being in unfavourable condition. Excessive levels of nutrients can cause the rapid growth of certain plants through the process of eutrophication. The effects of this look different depending on the habitat, however in each case, there is a loss of biodiversity, leading to sites being in ‘unfavourable condition’. To achieve the necessary improvements in water quality, it is becoming increasingly evident that in many cases substantial reductions in nutrients are needed. In addition, for habitats sites that are unfavourable due to nutrients, and where there is considerable development pressure, mitigation solutions are likely to be needed to enable new development to proceed without causing further harm.*

*In light of this serious nutrient issue, Natural England has recently reviewed its advice on the impact of nutrients on habitats sites which are already in unfavourable condition. Natural England is now advising that there is a risk of significant effects in more cases where habitats sites are in unfavourable condition due to exceeded nutrient thresholds. More plans and projects are therefore likely to proceed to appropriate assessment.*

*The principles underpinning HRAs are well established. At the screening stage, plans and projects should only be granted consent where it is possible to exclude, on the basis of objective information, that the plan or project will have significant effects on the sites concerned. Where it is not possible to rule out likely significant effects, plans and projects should be subject to an appropriate assessment. That appropriate assessment must contain complete, precise and definitive findings which are capable of removing all reasonable scientific doubt as to the absence of adverse effects on the integrity of the site.*

*Appropriate assessments should be made in light of the characteristics and specific environmental conditions of the habitats site. Where sites are already in unfavourable condition due to elevated nutrient levels, Natural England considers that competent authorities will need to carefully justify how further inputs from new plans or projects, either alone or in combination, will not adversely affect the integrity of the site in view of the conservation objectives. This should be assessed on a case-by-case basis through appropriate assessment of the effects of the plan or project. In Natural England’s view, the circumstances in which a Competent Authority can allow such plans or projects may be limited. Developments that contribute water quality effects at habitats sites may not meet the no adverse effect on site integrity test without mitigation.*

*Mitigation through nutrient neutrality offers a potential solution. Nutrient neutrality is an approach which enables decision makers to assess and quantify mitigation requirements of new developments. It allows new developments to be approved with no net increase in nutrient loading within the catchments of the affected habitats site.*

*Where properly applied, Natural England considers that nutrient neutrality is an acceptable means of counterbalancing nutrient impacts from development to demonstrate no adverse effect on the integrity of habitats sites and we have provided guidance and tools to enable you to do this.”*

- 2.10 A Nutrient Neutrality Assessment is to be undertaken by others and will be submitted as part of this planning application.

### 3 Existing Site Description and Drainage Features

#### Existing Site Description

- 3.1 The site is located at Anglia Square, Norwich and consists of a shopping precinct including stores such as Iceland and Boots and a former cinema. Large office blocks are also present at the site; the disused seven-storey Sovereign House which runs north-south along Boltoph Street previously housed Her Majesty's Stationary Office (HMSO) and the under-utilised six-storey Gildengate House, built over shops underneath.
- 3.2 The existing site is almost entirely impermeable and is served by both private and adopted foul and surface water sewers. Surface water run-off is unrestricted and untreated and ultimately outfalls to the adopted sewer network to the south-east of the site.

#### Site Levels

- 3.3 A site-specific topographical survey is included in **Appendix C**. For the main Anglia Square site, levels vary between 5.09m AOD in the north west corner to 2.40m AOD at the existing access road from St Crispin's Road to the south of the site. Away from this low spot, levels in the south east corner of the site are in the region of 3.08m AOD. For the existing Anglia Square shopping centre, levels are around 3.51m AOD. The site slopes in a generally south easterly direction at a gradient of approximately 1:125
- 3.4 The parcel north west of New Boltoph Street slopes in a southerly direction, at a gradient of approximately 1:185 with the highest level to the north west of the site at 5.40m AOD and the lowest level at 5.11m AOD at the southern extent of the parcel. The site is approximately 0.35-0.4m higher than the carriageway of New Boltoph Street/ Edward Street.
- 3.5 North of Edward Street the site slopes towards the north, at a gradient of approximately 1:100, with the highest point in the south west corner at a level of 4.27m AOD and the lowest point in the north at 3.87m AOD.

#### Sewer Network

- 3.6 Sewer records, obtained from Anglian Water and included in **Appendix D**, show there to be a 675mm surface water sewer and 300mm foul sewer flowing in a south westerly direction through the site.
- 3.7 A 300mm surface water sewer and 225mm foul sewer also run west to east with Edward Street, to the north of the main portion of the site. Both sewers connect to the respective foul and surface water sewers in Magdalen Street before flowing southwards and discharging into the River between Fye Bridge Street and Whitefriars Bridge.
- 3.8 A further 525mm combined sewer flows southwards along Magdalen Street. It is highly likely that surface water flows from the Dalymond Dyke flow within this sewer, given the location of the sewer and the available information on the Dalymond Dyke.
- 3.9 The sewer locations and sizes within the site boundary are shown in more detail on the topographical survey contained in **Appendix C**.

### Pre-Development Runoff Rate

3.10 The total site area covers 4.65ha and is entirely brownfield comprising a shopping centre, office block, paved open spaces and car parks. The existing impermeable area has been measured at 4.24ha. Surface water run-off from 3.96ha is unrestricted and untreated and ultimately outfalls to the adopted sewer network within Edward Street, Magdalan Street, Botolph Street and the sewers crossing the centre of the site from west-to-east. A section of car park covering 0.28ha looks to outfall to soakaways. As such, it is not suitable to consider the runoff from the site as though it is an undeveloped greenfield site. It is therefore appropriate to use a 'like for like' approach, i.e. quantify the runoff from the existing developed brownfield site and assess it against the proposed developed site whilst providing a betterment in terms of run-off rates and water quality.

3.11 Using the Modified Rational Method detailed in Butler, D and Davies, J. (2006), Urban Drainage, 2nd ed., SPON, the surface water runoff for the existing site has been calculated as follows: -

$$Q = CiA \quad \text{where} \quad Q = \text{maximum flow rate (l/s)}$$

$$C = \text{PIMP/PR}$$

$$i = \text{rainfall intensity (mm/hr),}$$

$$A = \text{area (ha)}$$

3.12 WINDES MicroDrainage was used to assess rainfall intensities for each storm event by running each storm event and noting the peak rainfall intensity for each storm, then using the above formula, the following existing run-off rates were calculated:

- 1 in 1 year 30.99mm/hr = 350.47 l/s
- 1 in 30 year 76.03mm/hr = 859.87 l/s
- 1 in 100 year 98.68mm/hr = 1115.97 l/s

3.13 Existing run-off rates calculations are contained in **Appendix E**.

3.14 An analysis was undertaken to review the areas of the existing site which drain to the adopted sewer network. For information, this is included in **Appendix F**.

### Pre-Development Storage Volumes

3.15 A simple analysis was carried out based on the topographical survey. The various sewers serving the existing site along with the diameters are shown on the topographic survey. These were measured and the available capacity in each sewer has been calculated. This analysis identified only the private sewers which outfall from the existing development to the adopted sewers but does not include the adopted sewers themselves or any outfall pipes from gullies or rainwater pipes. It is noted that there could be additional private sewers which haven't been picked up on the topographical survey so were not included in this analysis.

3.16 The storage volume available in the pipe network serving the existing brownfield site is as follows:

- 150dia – 335.4m = 6.04m<sup>3</sup>
- 225dia -296.4m = 11.86m<sup>3</sup>
- 300dia – 71.5m = 5.08m<sup>3</sup>

- $375\text{dia} - 34.9\text{m} = 3.84\text{m}^3$
  - Assume  $1\text{m}^3$  volume for each manhole.  $30 \times \text{manholes} = 30\text{m}^3$
- 3.17 The total 'storage' volume available in the surface water sewers on the existing site is therefore approximately **56.82m<sup>3</sup>**.

#### Existing Sewers, Diversions and Build-Overs

- 3.18 The proposals will require the adopted surface and foul water sewers which cross the site to be diverted. It is anticipated that a S185 Sewer diversion Application shall be made to Anglian Water which will preclude the need for any Build-Over Agreements. Further information on sewer diversions are contained in Section 4.
- 3.19 A number of private surface and foul water sewers serve the existing site. These sewers are not anticipated to be retained as part of the proposed surface water drainage strategy and will therefore be removed and new surface and foul water sewers provided.

## 4 Proposed Drainage Strategy

### Relevant SuDS Policy

- 4.1 The NPPF states that, “using opportunities provided by new development and improvements in green and other infrastructure to reduce the causes and impacts of flooding, (making as much use as possible of natural flood management techniques as part of an integrated approach to flood risk management)”.
- 4.2 SuDS mimic the natural drainage system and provide a method of surface water drainage which can decrease the quantity of water discharged, and hence reduce the risk of flooding. In addition to reducing flood risk, these features can improve water quality and provide biodiversity and amenity benefits.
- 4.3 The SuDS management train incorporates a hierarchy of techniques and considers all three SuDS criteria of flood reduction, pollution reduction, and landscape and wildlife benefit. In decreasing order of preference, the preferred means of disposal of surface water runoff is:
  - Discharge to ground.
  - Discharge to a surface water body.
  - Discharge to a surface water sewer.
  - Discharge to a combined sewer.
- 4.4 The philosophy of SuDS is to replicate as closely as possible the natural drainage from a site pre-development and to treat runoff to remove pollutants, resulting in a reduced impact on the receiving watercourses. The benefits of this approach are as follows:
  - Reducing runoff rates, thus reducing the flood risk downstream.
  - Reducing pollutant concentrations, thus protecting the quality of the receiving water body.
  - Groundwater recharge.
  - Contributing to the enhanced amenity and aesthetic value of development areas.
  - Providing habitats for wildlife in developed areas, and opportunity for biodiversity enhancement.

### Site-Specific SuDS

- 4.5 The various SuDS methods need to be considered in relation to site-specific constraints. Several SuDS options are available to reduce or temporarily hold back the discharge of surface water runoff. Table 4.1 outlines the constraints and opportunities to each of the SuDS devices in accordance with the hierarchical approach outlined in The SuDS Manual CIRIA C753. It also indicates what could and could not be incorporated within the development, based upon site-specific criteria.

| Device                                                   | Description                                                                                                                                         | Constraints / Comments                                                                                                                                                                                                                                | Appropriate |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Living roofs (source control)                            | Provide soft landscaping at roof level which reduces surface water runoff.                                                                          | Roof Terraces and Roof Gardens are proposed as part of this development.                                                                                                                                                                              | Yes         |
| Infiltration devices & Soakaways (source control)        | Store runoff and allow water to percolate into the ground via natural infiltration.                                                                 | Potential for high groundwater and contamination indicated due to brownfield site.                                                                                                                                                                    | No          |
| Pervious surfaces (source control)                       | Storm water is allowed to infiltrate through the surface into a storage layer, from which it can either infiltrate and/or slowly release to sewers. | Potential for high groundwater and contamination indicated due to brownfield site. Lined permeable paving is proposed in some pedestrian areas which are outside the main thoroughfares.                                                              | Yes         |
| Rainwater harvesting (source control)                    | Reduces the annual average rate of runoff from the site by reusing water for non-potable uses e.g. toilet flushing, recycling processes.            | Water butts are proposed for Block C and rainwater recycling for land-lord use to wash-down bin stores is also proposed.                                                                                                                              | Yes         |
| Swales (permeable conveyance)                            | Broad shallow channels that convey / store runoff, and allow infiltration (ground conditions permitting).                                           | Bioretention swales and tree-pits are proposed alongside Botolph Street as part of the highway drainage strategy. Further swales and bioretention swales are proposed within pedestrian areas across the site.                                        | Yes         |
| Filter drains & perforated pipes (permeable conveyance)  | Trenches filled with granular materials (to take flows from adjacent impermeable areas) that convey runoff while allowing infiltration.             | Some areas of the site may be suitable for use of filter drains, however no infiltration is expected to be viable due to contamination. Filter drains would therefore be lined and used for Water Quality purposes to filter waters prior to outfall. | Yes         |
| Filter Strips (permeable conveyance)                     | Wide gently sloping areas of grass or dense vegetation that remove pollutants from run-off from adjacent areas.                                     | Potential for high groundwater and contamination indicated due to brownfield site.                                                                                                                                                                    | No          |
| Infiltration basins (end of pipe treatment)              | Depressions in the surface designed to store runoff and allow infiltration.                                                                         | High density city centre site Potential for high groundwater and contamination indicated due to brownfield site.                                                                                                                                      | No          |
| Wet ponds & constructed wetlands (end of pipe treatment) | Provide water quality treatment & temporary storage above the permanent water level.                                                                | High density city centre site so no landscaped areas for ponds and wetlands.                                                                                                                                                                          | No          |
| Attenuation Underground (end of pipe treatment)          | Oversized pipes or geo-cellular tanks designed to store water below ground level.                                                                   | These are proposed as the SuDS listed above will not achieve sufficient volumes to restrict to the required rate. This is likely to be used alongside other means of attenuation at the site to provide the required storage volume.                  | Yes         |

Table 4.1: Site Specific Sustainable Drainage

## Rainwater Harvesting Opportunities Assessment

4.6 Where possible, rainwater harvesting features shall be incorporated in the proposals.

| Device                          | Description                                                              | Constraints / Comments                                                                                                                                                                                                                                                                                        | Appropriate |
|---------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Rainwater Harvesting – Internal | The use of filtered rainwater for reuse in toilets and washing machines. | Given the complex split of usages for the Blocks (residential vs commercial) the infrastructure needed to manage this and the possible risk/concern of maintenance and management of a system to serve private, communal and public use toilet water would be difficult to deliver effectively.               | No          |
| Rainwater Harvesting – External | The use of filtered rainwater for reuse at outside taps.                 | Rainwater harvesting tanks to be incorporated for land- lord bin wash-down, which shall be fed by rainwater downpipes and managed and maintained solely by the land-lord or elected Management and Maintenance Company<br><br>Rainwater Water-Butts are to be incorporated at Block C for Garden Watering Use | Yes         |

Table 4.2: Site Specific Rainwater Harvesting

## Post-Development Run-off Rate

- 4.7 Given the potentially high groundwater and contamination of the site, infiltration is not recommended. It is understood that groundwater monitoring undertaken in May 2022 found groundwater to be around 3.4m bgl, which precludes the use of infiltration devices. There are no nearby watercourses to which a connection could be made, and therefore it is proposed that the development will drain to the existing Anglian Water surface water network in the vicinity of the site at a restricted discharge rate.
- 4.8 As discussed in Section 3, the existing site outfalls unrestricted and untreated into the adopted sewer network. Para. 3.13 summarises the existing outfall rates for each storm event.
- 4.9 For information only, the greenfield run-off rates were calculated using WINDES MicroDrainage software, these are based on a total proposed impermeable area of 4.24ha and are summarised below and included in **Appendix H**.
- QBAR – 0.3 l/s/ha = 1.272 l/s
  - 1:1yr – 0.3 l/s/ha = 1.272 l/s
  - 1:30yr – 0.8 l/s/ha = 3.392 l/s
  - 1:100yr – 1.2 l/s/ha = 5.088 l/s
- 4.10 The greenfield runoff rates are very low due to the local geology of chalk. However, in reality the site is almost 100% impermeable, historical mapping shows the site has been developed since at least 1885 and has been a shopping/town centre for many years. The site is Brownfield and it is therefore considered appropriate to review the existing run-off rates with a view to provide a betterment. Using greenfield run-off rates for a site which has been browfield for over 137 years is inappropriate and would result in excessive attenuation volumes and therefore tank sizes, which could have impacts on other features such as the local archaeology, groundwater and geology.

- 4.11 The site is in a sensitive location, being at the downstream end of a Critical Drainage Area (CDA). The CDA relates largely to offsite surface water flows being directed through the catchment, through the site and ultimately to the River Wensum. There also appears to be local flood issues relating to the capacity of the local sewer network.
- 4.12 As discussed in the separate FRA by Royal Haskoning DHV, measures will be in place to mitigate against the impact of these offsite flows within the site boundary. The proposed drainage system will not be designed to accept offsite flows, but it is considered that a significant improvement can still be made by designing an effective drainage system at the site, which will benefit those downstream of the site by attenuating rainfall within the site boundary. The proposed drainage system will install drainage features which are much smaller and will have less of an impact on other aspects (such as archaeology, sewers and geology).
- 4.13 A pre-development enquiry with Anglian Water has been submitted, to update the enquiry received for the previous scheme. Anglian Water were able to confirm that an outfall rate of 242 l/s to manage all storms up to and including the 1 in 100yr + Climate Change Event would be acceptable – this is based on their calculation of an equivalent 1:1yr discharge rate applied to the existing impermeable area. Surface water should be discharged to the same sewers as the existing site, which are in Edward Street, Pitt Street and St Crispins Road. The proposed discharge rate of 242 l/s would provide a significant betterment to the existing situation.
- 4.14 The Anglian Water Pre-Development Assessment report, confirming an agreeable maximum discharge rate of 242 l/s and the recommended connection points to the existing Anglian Water network is included in **Appendix I**.

### **Proposed Drainage Strategy**

- 4.15 In accordance with the Environment Agency's May 2022 published Climate Change Allowances, all surface water drainage is to be designed to a 1:100yr + 45% Climate Change Event. As per LLFA's Developer Guidance, FEH Rainfall Data shall be used within the hydraulic models. As requested by the LLFA, the hydraulic model assumes that adopted sewers are running at full bore and will be surcharged to the top of pipe.
- 4.16 As described in Section 1, it is proposed to make a Hybrid planning application: Full Planning for Blocks, A, B, C, D, J3, K/L and M and Outline Planning for Blocks E, F, G, H and J.
- 4.17 The Hybrid site layout precludes the option for completely separating drainage for Outline areas from Full-Planning areas however, largely, the drainage systems serve only Outline or only Full-Planning areas.
- 4.18 The development parcels have been split into 9no. drainage catchments:
- System 1 – Serves Block B (Full-Planning)
  - System 2 – Serves Block C (Full-Planning)
  - System 3 – Serves Block D (Full-Planning)
  - System 4 - Serves Block A, M J3 and K/L (Full Planning)
  - System 5 – Serves Botolph Street/Public Realm Area (Full Planning)
  - System 6 – Serves Block E (Outline Planning)

- System 7 – Serves Block F (Outline Planning)
- System 8 – Serves Blocks G and J (Outline Planning)
- System 9 – Serves Block H (Outline Planning)

### System 1 – Block B – Full Planning

- 4.19 SuDS Feature Selection – This catchment comprises residential dwellings, footpaths, patios and parking areas. Residential units facing New Botolph St will have green roofs covering an area of 290m<sup>2</sup>. It is proposed to utilise lined permeable paving to manage run-off from the trafficked areas, whilst a surface water drainage network shall collect run-off from roof, patios and other hardstanding areas. All flows shall be directed to a geo-cellular storage device via a Downstream Defender (proprietary treatment unit). The impermeable area for this catchment has been calculated as: 1651m<sup>2</sup>. The maximum outfall rate for this catchment has been set at **5 l/s** to manage all storms up to and including the 1 in 100yr + 45% Climate Change Event. The proposed Surface Water Drainage Layouts are contained in **Appendix K** and shows the network serving Block B on drawing DR-001.
- 4.20 There are two sections of permeable paving attenuation, PP1 covers an area of 476m<sup>2</sup> and PP2 covers an area of 150m<sup>2</sup>. Surface water attenuation volume is provided within the sub-base voids (usually 30% voids and no-fines). Flows from these permeable paving systems are restricted using orifice-plate flow control chambers – flows are then directed to/cascade to the geo-cellular attenuation device which also collects surface water run-off from 806m<sup>2</sup> of roof area (noting that 290m<sup>2</sup> is green roof and assumed to be saturated/impermeable) and 219m<sup>2</sup> of patio and hardstanding areas. Outfall flows from the geo-cellular attenuation device are restricted using a hydrobrake (flow control device) and are directed to the 225dia adopted surface water sewer in Edward Street via a new section of sewer.
- 4.21 WINDES MicroDrainage modelling software has been used to calculate the required attenuation volume for the permeable paving areas and the geo-cellular storage device whilst restricting flows to a maximum of **5 l/s** to manage a 1 in 100 year + 45% Climate Change event. The hydraulic output data shows an attenuation volume of 35.176m<sup>3</sup> in PP1, a volume of 7.765m<sup>3</sup> in PP2 and a volume of 42.909m<sup>3</sup> in the geo-cellular storage device. This can be contained within the sub-base of the permeable paving areas and within a geo-cellular storage device sized 35.2m<sup>2</sup> x 1.32m deep with 95% voids – this provides a maximum attenuation volume of 44.14m<sup>3</sup>. The hydraulic model output for Block B is contained in **Appendix J** as well as the drainage long-sections.
- 4.22 Half Drain Times – The hydraulic model demonstrates that Permeable Paving Area 1 has a half-drain time of 545mins, Permeable Paving Area 2 is 184mins and the Geo-cellular storage device half-drains in 131mins. All well within 24hrs.
- 4.23 Water Quality Assessment – This catchment comprises residential roofs and low-traffic roads only.
- 4.24 CIRIA 763 SuDS Manual Table 26.2 shows Low-Traffic Roads have a Pollution Hazard Level of LOW. All low-traffic roads in this catchment are anticipated to comprise lined permeable paving construction with outfall directed to the adopted sewer via the geo-cellular attenuation device. Table 26.2 shows Low-Traffic Roads have TSS of 0.5 Metals, 0.4 and Hydrocarbons 0.4. Table 26.3, SuDS mitigation indices for discharges to surface waters, shows that Permeable Paving alone provides mitigation for TSS at 0.7; Metals at 0.6 and Hydrocarbons at 0.7. Surface water run-off from low-traffic-road areas is more than sufficiently mitigated by use of Permeable Paving.

- 4.25 CIRIA 763 SuDS Manual Table 26.2 shows Residential Roofs have a Pollution Hazard Level of LOW. Residential Roofs will discharge directly to the adopted sewer via a Downstream Defender (proprietary treatment unit) and the geo-cellular attenuation device. Table 26.2 shows Residential Roofs have TSS of 0.2 Metals 0.2 and Hydrocarbons 0.05. Table 26.3, SuDS mitigation indices for discharges to surface waters, states that proprietary treatment systems must demonstrate that they can address each contaminate type to an acceptable level. As this Downstream Defender is required solely to cleanse waters from residential roofs and footpaths, it is considered more than sufficient to provide water treatment.

## System 2 – Block C – Full Planning

- 4.26 SuDS Feature Selection – This catchment comprises residential dwellings and hard and soft landscaping areas. A surface water drainage network shall collect run-off from all impermeable areas and with all flows are directed to a geo-cellular storage device with restricted flows passing through a Bioretention Swale. The contributing area for this catchment has been calculated as: 750m<sup>2</sup>, comprising 435m<sup>2</sup> of Green Roof, 50m<sup>2</sup> of Roof area and 265 m<sup>2</sup> of pedestrian hardstanding. It is assumed that green-roofs will be saturated and therefore impermeable for the purpose of these hydraulic calculations. The maximum outfall rate for this catchment has been set at 5 l/s to manage all storms up to and including the 1 in 100yr + 45% Climate Change Event. The proposed Surface Water Drainage Layouts are contained in Appendix K and shows the network serving Block C on drawing DR-001.
- 4.27 Surface water run-off from the Green Roof areas is collected in a surface water drainage network which outfalls to a geo-cellular attenuation device via a Swale. Run-off from pedestrian/hard landscaping is directed to a Bio-retention Swale and directed to the surface water drainage network via a perforated pipe. Flows from the geo-cellular attenuation device are restricted using a pump which pumps flows into the filter medium within the Bio-retention Swale. A perforated pipe at the base of the bioretention swale then outfalls to a demarcation chamber prior to discharge to the 225dia adopted surface water sewer in Edward Street via a new connection.
- 4.28 WINDES MicroDrainage modelling software has been used to calculate the required attenuation volume for the geo-cellular storage device whilst restricting flows to a maximum of 5 l/s to manage a 1 in 100 year + 45% Climate Change event. The hydraulic output data shows an attenuation volume of 28.327m<sup>3</sup> in the geo-cellular storage device. This can be contained within a geo-cellular storage device sized 23.0m<sup>2</sup> x 1.32m deep with 95% voids – this provides a maximum attenuation volume of 28.842m<sup>3</sup>. The hydraulic model output for Block C is contained in **Appendix J** as well as the drainage long-sections.
- 4.29 Half Drain Times – The hydraulic model demonstrates the Geo-cellular storage device half-drains in 78mins. Well within 24hrs.
- 4.30 Water Quality Assessment – This catchment comprises footpaths and residential roofs only.
- 4.31 CIRIA 763 SuDS Manual Table 26.2 shows Residential Roofs have a Pollution Hazard Level of LOW. Residential Roofs will discharge directly to the adopted sewer via a Filter Drain and the geo-cellular attenuation device. Table 26.2 shows Residential Roofs have TSS of 0.2 Metals 0.2 and Hydrocarbons 0.05. Table 26.3, SuDS mitigation indices for discharges to surface waters, shows that a Bioretention system provides mitigation for TSS at 0.8; Metals at 0.8 and Hydrocarbons at 0.8. Surface water run-off from residential roof areas is more than sufficiently mitigated by use of a Bio-Retention Swale

### System 3 – Block D – Full Planning

- 4.32 SuDS Feature Selection – This catchment comprises a commercial unit block with residential dwellings above, with 570m<sup>2</sup> of green roof. The catchment also includes public realm area with bio-retention tree-pits and bioretention swales within pedestrian walkways. To be conservative, the hydraulic models shall assume green-roofs are saturated and will not allow for any impermeable areas, as such will be considered 100% impermeable with a contributing area of 2580m<sup>2</sup>. The maximum outfall rate for this catchment has been set at **12.5 l/s** to manage all storms up to and including the 1 in 100yr + 45% Climate Change Event. The proposed Surface Water Drainage Layouts are contained in **Appendix K** and shows the network serving Block D on drawing DR-001.
- 4.33 Surface water run-off from roof areas is collected in a surface water drainage network. This surface water drainage network also collects from the bioretention tree pits and swales which collect run-off from the pedestrian walkways. All flows are directed to a geo-cellular storage device with restricted flows passing through a Bioretention Swale prior to outfall to the 675dia diverted Anglian Water Sewer crossing the site.
- 4.34 WINDES MicroDrainage modelling software has been used to calculate the required attenuation volume for the geo-cellular storage device whilst restricting flows to a maximum of **12.5 l/s** to manage a 1 in 100 year + 45% Climate Change event. The hydraulic output data shows an attenuation volume of 94.235m<sup>3</sup> in the geo-cellular storage device. This can be contained within a geo-cellular storage device sized 71.0m<sup>2</sup> x 1.32m deep with 95% voids – this provides a maximum attenuation volume of 89.034m<sup>3</sup> (NB: some storage volume is contained within the drainage network itself). The hydraulic model output for Block D is contained in **Appendix J** as well as the drainage long-sections.
- 4.35 Half Drain Times – The hydraulic model demonstrates the Geo-cellular storage device half-drains in 112mins. All well within 24hrs.
- 4.36 Water Quality Assessment – This catchment comprises commercial/residential roofs and pedestrian walkways only.
- 4.37 CIRIA 763 SuDS Manual Table 26.2 shows Other Roofs (commercial/industrial) have a Pollution Hazard Level of LOW. Roofs and pedestrian walkways will discharge directly to the adopted sewer via a Bioretention Swale. Table 26.2 shows Other Roofs have TSS of 0.3 Metals 0.2 and Hydrocarbons 0.05. Table 26.3, SuDS mitigation indices for discharges to surface waters, shows that bioretention systems provide mitigation for TSS at 0.8; Metals at 0.8 and Hydrocarbons at 0.8. Surface water run-off from this catchment is more than sufficiently mitigated by use of a Bioretention Swale.

### System 4 – Blocks A, M, J3 and K/L – Full Planning

- 4.38 SuDS Feature Selection – This catchment comprises commercial blocks with residential dwellings above, with 1750m<sup>2</sup> of green roof. The catchment also includes public realm area with bio-retention tree-pits and bioretention swales within pedestrian walkways. To be conservative, the hydraulic models shall assume green-roofs are saturated and will not allow for any impermeable areas, as such will be considered 100% impermeable with a contributing area of 14,850m<sup>2</sup>. The maximum outfall rate for this catchment has been set at **65.0 l/s** to manage all storms up to and including the 1 in 100yr + 45% Climate Change Event. All flows shall be directed to a Geo-cellular attenuation device. Some run-off from pedestrian walkway areas will benefit from bioretention tree-pit and bioretention swales however as described

above, to be conservative, it is assumed that 'green' SuDS features will be saturated and will not contribute to attenuation volumes. The proposed Surface Water Drainage Layouts are contained in **Appendix K** and shows the network serving this catchment on drawings DR-001, DR-002, DR-003 and DR-004.

- 4.39 WINDES MicroDrainage modelling software has been used to calculate the required attenuation volume for the geo-cellular storage device whilst restricting flows to **65.0 l/s**. Any attenuation volume that may be provided in green roofs and bio-retention areas has not been allowed for to ensure a robust estimation of the required attenuation volumes to serve this catchment are made. The hydraulic output data is contained in **Appendix J** and shows an attenuation volume of 500.184m<sup>3</sup> in the geo-cellular storage device with a maximum outfall rate of **65.0 l/s** is required to manage a 1 in 100 year + 40% Climate Change event. This can be contained within a geo-cellular storage device sized 307.2m<sup>2</sup> x 1.67m with 95% voids – this provides a maximum attenuation volume of 487.37m<sup>3</sup> (NB: some storage volume is contained within the drainage network itself). The hydraulic model output for Block D is contained in **Appendix J** as well as the drainage long-sections.
- 4.40 Half Drain Times – The hydraulic model demonstrates the Geo-cellular storage device half-drains in 133mins. All well within 24hrs.
- 4.41 Water Quality Assessment – This catchment comprises commercial/residential roofs and pedestrian walkways only.
- 4.42 CIRIA 763 SuDS Manual Table 26.2 shows Other Roofs (commercial/industrial) have a Pollution Hazard Level of LOW. Roofs and pedestrian walkways will discharge directly to the adopted sewer via a Downstream Defender (proprietary treatment unit). Table 26.3, SuDS mitigation indices for discharges to surface waters, states that proprietary treatment systems must demonstrate that they can address each contaminate type to an acceptable level. As this Downstream Defender is required solely to cleanse waters from roof areas and pedestrian walkways (noting that some run-off would have already been cleansed by green roofs and bioretention systems), it is considered more than sufficient to provide water treatment.

### System 5 – Botolph Street/Public Realm Area – Full Planning

- 4.43 SuDS Feature Selection – This catchment comprises a large public realm with pedestrian walkways and bioretention swales. Some areas to the south of Botolph Street shall be trafficked. Surface water runoff shall be directed into Bioretention Swales and where this is not possible into channel drains. To be conservative, the hydraulic models shall assume 100% impermeable area (with no allowance for the bioretention swales) as such the contributing area is 1630m<sup>2</sup>. The maximum outfall rate for this catchment has been set at **10.0 l/s** to manage all storms up to and including the 1 in 100yr + 45% Climate Change Event. All flows shall be directed to an oversized pipe system with outfall restricted via a hydrobrake flow control device. The proposed Surface Water Drainage Layouts are contained in **Appendix K** and shows the network serving this catchment on drawings DR-002.
- 4.44 WINDES MicroDrainage modelling software has been used to calculate the required attenuation volume for the over-size pipe system whilst restricting flows to **10.0 l/s**. Any attenuation volume that may be provided in bio-retention areas has not been allowed for to ensure a robust estimation of the required attenuation volumes to serve this catchment are made. The hydraulic output data is contained in **Appendix J** and shows an attenuation

volume of 58.648m<sup>3</sup> (which is the sum of the maximum volume within each pipe-run) is required to manage a 1 in 100 year + 40% Climate Change event with flow restricted to **10 l/s**. The hydraulic model output for Botolph Street is contained in **Appendix J** as well as the drainage long-sections.

- 4.45 Water Quality Assessment – This catchment comprises pedestrian walkways only.
- 4.46 CIRIA 763 SuDS Manual Table 26.2 shows Low-Trafficked Roads have a Pollution Hazard Level of LOW. Run-off will discharge directly to the adopted sewer via a Downstream Defender (proprietary treatment unit). Table 26.3, SuDS mitigation indices for discharges to surface waters, states that proprietary treatment systems must demonstrate that they can address each contaminate type to an acceptable level. As this Downstream Defender is required solely to cleanse waters mainly from pedestrian areas with some small areas of trafficked hardstanding, (noting that some run-off would have already been cleansed by bioretention systems), it is considered more than sufficient to provide water treatment.

### System 6 – Block E – Outline Planning

- 4.47 SuDS Feature Selection – This catchment comprises commercial units with residential dwellings above and some public realm/pedestrian walkways. Green roof shall cover some roof area. Some bioretention swales shall collect run-off from highway areas to the west, which has been agreed in principle with the Highway Authority. Details of the split between private and highway catchments and the drainage features which serve these areas shall be confirmed during detailed design stage. For now, and to be conservative, the hydraulic models shall assume all areas within the catchment boundary shall be collected within a private drainage network. The catchment shall be considered 100% impermeable with a contributing area of 6420m<sup>2</sup>.
- 4.48 At this Outline stage the surface water drainage strategy shall allow for all waters to be collected within a Geocellular attenuation device with a restricted outfall directed to the diverted adopted 675dia surface water sewer crossing the site. Flows shall be cleansed via a Downstream Defender (proprietary treatment unit) prior to outfall. The maximum outfall rate for this catchment has been set at **30.0 l/s** to manage all storms up to and including the 1 in 100yr + 45% Climate Change Event. The proposed Surface Water Drainage Layouts are contained in **Appendix K** and shows the network serving Block E on drawing DR-003.
- 4.49 WINDES MicroDrainage modelling software has been used to calculate the required attenuation volume for the geo-cellular storage device whilst restricting flows to **30.0 l/s**. Any attenuation volume that may be provided in green roofs and bio-retention areas has not been allowed for to ensure a robust estimation of the required attenuation volumes to serve this catchment are made. The hydraulic output data is contained in **Appendix J** and shows an attenuation volume of 310.8m<sup>3</sup> in the geo-cellular storage device with a maximum outfall rate of **30.0 l/s** is required to manage a 1 in 100 year + 40% Climate Change event. This can be contained within a geo-cellular storage device sized 166.4m<sup>2</sup> x 1.98m with 95% voids – this provides a maximum attenuation volume of 312.99m<sup>3</sup>. The hydraulic model output for Block E is contained in **Appendix J**.
- 4.50 Half Drain Times – The hydraulic model demonstrates the Geo-cellular storage device half-drains in 102mins. All well within 24hrs.
- 4.51 Water Quality – This catchment comprises Other Roofs as well as Pedestrian Walkways.

- 4.52 CIRIA 763 SuDS Manual Table 26.2 shows Other Roofs (commercial/industrial) have a Pollution Hazard Level of LOW. Roofs and pedestrian walkways will discharge directly to the adopted sewer via a Downstream Defender (proprietary treatment unit). Table 26.3, SuDS mitigation indices for discharges to surface waters, states that proprietary treatment systems must demonstrate that they can address each contaminate type to an acceptable level. As this Downstream Defender is required solely to cleanse waters from roof areas and pedestrian walkways (noting that some run-off would have already been cleansed by green roofs and bioretention systems), it is considered more than sufficient to provide water treatment.

### System 7 – Block F – Outline Planning

- 4.53 SuDS Feature Selection – This catchment comprises commercial units with residential dwellings above and some public realm/pedestrian walkways. Green roof shall cover some roof area whilst a section of permeable paving system shall form the external parking area (approx.265 m<sup>2</sup>). Bioretention swales shall collect run-off from pedestrian walkways where possible. For now, and to be conservative, the hydraulic models shall assume all areas within the catchment boundary shall be collected within a private drainage network. The catchment shall be considered 100% impermeable with a contributing area of 4460m<sup>2</sup>.
- 4.54 At this Outline stage the surface water drainage strategy shall allow for all waters to be collected within a Geocellular attenuation device with a restricted outfall directed to the diverted adopted 675dia surface water sewer crossing the site. Flows shall be cleansed via a Downstream Defender (proprietary treatment unit) prior to outfall. The maximum outfall rate for this catchment has been set at **20.0 l/s** to manage all storms up to and including the 1 in 100yr + 45% Climate Change Event. The proposed Surface Water Drainage Layouts are contained in **Appendix K** and shows the network serving Block F on drawing DR-003.
- 4.55 WINDES MicroDrainage modelling software has been used to calculate the required attenuation volume for the geo-cellular storage device whilst restricting flows to **20.0 l/s**. Any attenuation volume that may be provided in green roofs and bio-retention areas has not been allowed for to ensure a robust estimation of the required attenuation volumes to serve this catchment are made. The hydraulic output data is contained in **Appendix J** and shows an attenuation volume of 209.1m<sup>3</sup> in the geo-cellular storage device with a maximum outfall rate of **20.0 l/s** is required to manage a 1 in 100 year + 40% Climate Change event. This can be contained within a geo-cellular storage device sized 112.6m<sup>2</sup> x 1.98m with 95% voids – this provides a maximum attenuation volume of 211.8m<sup>3</sup>. The hydraulic model output for Block F is contained in **Appendix J**.
- 4.56 Half Drain Times – The hydraulic model demonstrates the Geo-cellular storage device half-drains in 90mins. All well within 24hrs.
- 4.57 Water Quality Assessment – This catchment comprises commercial/residential roofs, pedestrian walkways and low-traffic roads only.
- 4.58 CIRIA 763 SuDS Manual Table 26.2 shows Low-Traffic Roads have a Pollution Hazard Level of LOW. All low-traffic roads in this catchment are anticipated to comprise lined permeable paving construction with outfall directed to the adopted sewer via the geo-cellular attenuation device. Table 26.2 shows Low-Traffic Roads have TSS of 0.5 Metals, 0.4 and Hydrocarbons 0.4. Table 26.3, SuDS mitigation indices for discharges to surface waters, shows that Permeable Paving alone provides mitigation for TSS at 0.7; Metals at 0.6 and Hydrocarbons at 0.7. Surface water run-off from low-traffic-road areas is more than sufficiently mitigated by use of Permeable Paving.

- 4.59 CIRIA 763 SuDS Manual Table 26.2 shows Other Roofs (commercial/industrial) have a Pollution Hazard Level of LOW. Roofs and pedestrian walkways will discharge directly to the adopted sewer via a Downstream Defender (proprietary treatment unit). Table 26.3, SuDS mitigation indices for discharges to surface waters, states that proprietary treatment systems must demonstrate that they can address each contaminate type to an acceptable level. As this Downstream Defender is required solely to cleanse waters from roof areas and pedestrian walkways (noting that some run-off would have already been cleansed by green roofs and bioretention systems), it is considered more than sufficient to provide water treatment.

### System 8 – Blocks G and J – Outline Planning

- 4.60 “SuDS Feature Selection – This catchment comprises residential units, commercial units with residential dwellings above as well as some public realm/pedestrian walkways and access vehicular access. Green roof shall cover some roof area. Permeable paving covering an area of approx. 614 m<sup>2</sup> shall collect surface water run-off from areas that will be trafficked. Bioretention swales shall collect run-off from pedestrian walkways where possible. For now, and to be conservative, the hydraulic models shall assume all areas within the catchment boundary shall be collected within a private drainage network. The catchment shall be considered 100% impermeable with a contributing area of 9640m<sup>2</sup>.
- 4.61 At this Outline stage the surface water drainage strategy shall allow for all waters to be collected within a Geocellular attenuation device with a restricted outfall directed to the diverted adopted 675dia surface water sewer crossing the site. Flows shall be cleansed via a Downstream Defender (proprietary treatment unit) prior to outfall. The maximum outfall rate for this catchment has been set at **70.0 l/s** to manage all storms up to and including the 1 in 100yr + 45% Climate Change Event. The proposed Surface Water Drainage Layouts are contained in **Appendix K** and shows the network serving Block F on drawing DR-003 and DR-004.
- 4.62 WINDES MicroDrainage modelling software has been used to calculate the required attenuation volume for the geo-cellular storage device whilst restricting flows to **70.0 l/s**. Any attenuation volume that may be provided in green roofs and bio-retention areas has not been allowed for to ensure a robust estimation of the required attenuation volumes to serve this catchment are made. The hydraulic output data is contained in **Appendix J** and shows an attenuation volume of 370.4m<sup>3</sup> in the geo-cellular storage device with a maximum outfall rate of **70.0 l/s** is required to manage a 1 in 100 year + 40% Climate Change event. This can be contained within a geo-cellular storage device sized 195.8m<sup>2</sup> x 1.67m with 95% voids – this provides a maximum attenuation volume of 310.63m<sup>3</sup>. The hydraulic model output for Block G and J is contained in **Appendix J**.
- 4.63 Half Drain Times – The hydraulic model demonstrates the Geo-cellular storage device half-drains in 53mins. All well within 24hrs.
- 4.64 Water Quality Assessment – This catchment comprises commercial/residential roofs, pedestrian walkways and low-traffic roads only.
- 4.65 CIRIA 763 SuDS Manual Table 26.2 shows Low-Traffic Roads have a Pollution Hazard Level of LOW. All low-traffic roads in this catchment are anticipated to comprise lined permeable paving construction with outfall directed to the adopted sewer via the geo-cellular attenuation device. Table 26.2 shows Low-Traffic Roads have TSS of 0.5 Metals, 0.4 and Hydrocarbons 0.4. Table 26.3, SuDS mitigation indices for discharges to surface waters, shows that Permeable Paving alone provides mitigation for TSS at 0.7; Metals at 0.6 and Hydrocarbons at 0.7. Surface water run-off from low-traffic-road areas is more than sufficiently mitigated by

use of Permeable Paving.

- 4.66 CIRIA 763 SuDS Manual Table 26.2 shows Other Roofs (commercial/industrial) have a Pollution Hazard Level of LOW. Roofs and pedestrian walkways will discharge directly to the adopted sewer via a Downstream Defender (proprietary treatment unit). Table 26.3, SuDS mitigation indices for discharges to surface waters, states that proprietary treatment systems must demonstrate that they can address each contaminate type to an acceptable level. As this Downstream Defender is required solely to cleanse waters from roof areas and pedestrian walkways (noting that some run-off would have already been cleansed by green roofs and bioretention systems), it is considered more than sufficient to provide water treatment.

## System 9 – Block H – Outline Planning

- 4.67 SuDS Feature Selection – This catchment comprises commercial units with residential dwellings above and some public realm/pedestrian walkways. Green roof shall cover some roof area. Bioretention swales shall collect run-off from pedestrian walkways where possible. For now, and to be conservative, the hydraulic models shall assume all areas within the catchment boundary shall be collected within a private drainage network. The catchment shall be considered 100% impermeable with a contributing area of 3460m<sup>2</sup>.
- 4.68 At this Outline stage the surface water drainage strategy shall allow for all waters to be collected within a Geocellular attenuation device with a restricted outfall directed to the diverted adopted 675dia surface water sewer crossing the site. Flows shall be cleansed via a Downstream Defender (proprietary treatment unit) prior to outfall. The maximum outfall rate for this catchment has been set at **24.5 l/s** to manage all storms up to and including the 1 in 100yr + 45% Climate Change Event. The proposed Surface Water Drainage Layouts are contained in **Appendix K** and shows the network serving Block H on drawing DR-002.
- 4.69 WINDES MicroDrainage modelling software has been used to calculate the required attenuation volume for the geo-cellular storage device whilst restricting flows to **24.5 l/s**. Any attenuation volume that may be provided in green roofs and bio-retention areas has not been allowed for to ensure a robust estimation of the required attenuation volumes to serve this catchment are made. The hydraulic output data is contained in **Appendix J** and shows an attenuation volume of 141.1m<sup>3</sup> in the geo-cellular storage device with a maximum outfall rate of **24.5 l/s** is required to manage a 1 in 100 year + 40% Climate Change event. This can be contained within a geo-cellular storage device sized 112.0m<sup>2</sup> x 1.32m with 95% voids – this provides a maximum attenuation volume of 140.448m<sup>3</sup>. The hydraulic model output for Block H is contained in **Appendix J**.
- 4.70 Half Drain Times – The hydraulic model demonstrates the Geo-cellular storage device half-drains in 61mins. All well within 24hrs.
- 4.71 Water Quality – This catchment comprises Other Roofs as well as Pedestrian Walkways.
- 4.72 CIRIA 763 SuDS Manual Table 26.2 shows Other Roofs (commercial/industrial) have a Pollution Hazard Level of LOW. Roofs and pedestrian walkways will discharge directly to the adopted sewer via a Downstream Defender (proprietary treatment unit). Table 26.3, SuDS mitigation indices for discharges to surface waters, states that proprietary treatment systems must demonstrate that they can address each contaminate type to an acceptable level. As this Downstream Defender is required solely to cleanse waters from roof areas and pedestrian walkways (noting that some run-off would have already been cleansed by green roofs and bioretention systems), it is considered more than sufficient to provide water treatment.

## Summary of Catchments and Proposed Outfall Rates

- 4.73 As discussed in para. 4.13, the total allowable outfall rate for the Anglia Square Regeneration site has been set at 242 l/s, which is a 57% reduction against the existing situation – a significant betterment. Below is a breakdown of outfall rates for each catchment (System) and total:
- System 1 – Maximum surface water outfall rate of 5.0 l/s

- System 2 – Maximum surface water outfall rate of 5.0 l/s
- System 3 – Maximum surface water outfall rate of 12.5 l/s
- System 4 - Maximum surface water outfall rate of 65.0 l/s
- System 5 – Maximum surface water outfall rate of 10.0 l/s
- System 6 – Maximum surface water outfall rate of 30.0 l/s
- System 7 – S Maximum surface water outfall rate of 20.0 l/s
- System 8 – Maximum surface water outfall rate of 70.0 l/s
- System 9 - Maximum surface water outfall rate of 24.5 l/s
- All Systems – Total 242.0 l/s maximum outfall rate to manage all storms up to and including the 1:100yr + 45% Climate Change Event. The equivalent of 43% of the existing 1:1yr surface water run-off rate. This is a significant improvement to the existing situation. In addition, the existing drainage system does not benefit from any water treatment stages, whilst the proposed drainage strategy allows for water quality and treatment stages to meet the guidance within CIRIA 753 SuDS Manual.

### **Attenuation Tank Alarm System**

- 4.1 It is proposed that the attenuation tanks serving the external hardstanding areas/pedestrian walkways will have alarms fitted internally. As it is not possible to separate the offsite flows from the onsite runoff in these areas, it is recommended that alarm detection sensor is fitted at around the 75% capacity level of the tanks serving the hardstanding areas (Systems 03 to 08). The 75% capacity level was considered to be acceptable as it would ensure the alarms would not be triggered in the lower return period, every day events, but further analysis should be carried out to verify this. The specific level that the alarm sensors would be fitted within the tanks will be established during the preparation of the Flood Warning Plan, which it has been agreed with Norwich City Council Emergency Planning Team can be conditioned and prepared post-planning. The flood warning strategy has been discussed further in Section 8 of the Royal Haskoning DHV Flood Risk Assessment Report.

### Surface Water Pumps Alarm System

- 4.74 Wherever possible it is proposed to utilise an outfall to the adopted sewer network via a gravity connection using a hydrobrake or other suitable flow control device, such as orifice plates for permeable paving outlets. Where this is not possible, due to the receiving sewer being higher than the proposed drainage, surface water has to be pumped to a 'demarcation' chamber to allow waters to flow into the adopted sewer network by gravity connection.
- 4.75 Where surface water pumps are to be used, it is proposed to install a secondary back-up pump with a telemetry alarm system. The telemetry alarm system shall be linked to the elected Maintenance and Management Company to alert in case of primary pump failure. In the event of primary pump failure, the secondary pump shall manage flows until the primary pump is repaired or replaced. In the unlikely event that the secondary pump fails before the primary pump is repaired, the telemetry alarm system will alert the Management and Maintenance Company who shall install a temporary pump.
- 4.76 The risk of pump failure is low, however in the very unlikely event that primary, secondary and temporary pumps all fail, waters would fill the attenuation tanks and overspill into the public realm, following the overland flow paths. There is no risk to property as pumps and tanks are located externally.

### Exceedance Routes

- 4.77 In the event of a greater than 1 in 100 year (+45%CC) rainfall event occurring, the exceedance routes would follow proposed and existing surface water flow paths as identified in Figure 1 below:



Figure 1 – Exceedance Routes

- 4.78 As discussed in the separate FRA, the hydraulic model assumes the public sewer system is almost at capacity and there is no drainage system within the site boundary. This would result in the overland flows collecting in the pedestrian walkways and passing through the site from north west to south east. The flows would leave the site at Magdalen Street on the western and south western boundary. It is noted that if the drainage system was at capacity,

the site layout and sloping pedestrian walkways have been set out to ensure flowpaths are not blocked.

### Sewer Diversions

- 4.79 As noted in Section 3, there are a number of Anglian Water sewers passing through the existing site. Anglian Water were consulted in 2018 for the previous scheme on the potential diversion of several of their sewers around the proposed development and it is understood that this will need to be considered in detail at a later stage through a diversion application, when information such as the foundation design is available. Anglian Water Drainage Engineer Darren Sewell provided some information on the requirements when diverting sewers within a new development site. This has been included at **Appendix L**. To summarise:
- 4.80 Any re-development areas falling within 3m of an existing public sewer but remaining only 'built near' an existing sewer, assuming the same clearance and access is available, would in principle be acceptable.
- 4.81 Any areas falling within 3m of the existing public sewer would need to comply with Part H4 Building Regulations in respect of 'building near' public sewers and Anglian Water criteria on the website.
- 4.82 Foundation design of the new buildings would need to be carefully considered to ensure that no loading would be transferred on a 45 degree 'angle of repose' onto the sewer.
- 4.83 The only area which would appear to require consideration of a formal diversion of a sewer would be the existing 675mm diameter surface water sewer and the existing 225mm foul sewer running immediately south of unit A1.01 (675mm surface water sewer close to MH 0453 to 0456 and 225mm foul sewer near to MH 0405 to 0408).
- 4.84 The above sewer may require a diversion, and the technicalities of this will be considered at a later stage. Anglian Water could consider formally divesting some sections of the existing public sewer which are no longer needed/fall beneath buildings (these need to be sewers serving only the existing site and no third parties). This means the Developer would apply to divest the sewer into their private ownership, and these sections of divested sewer could then be removed if no longer needed.
- 4.85 It would be necessary to consult Anglian Water further on the diverting and divesting of their public sewers across the site prior to any development taking place, to ensure that the issues raised in the email at **Appendix L** have been addressed.
- 4.86 It is expected that the advice provided by Anglian Water for the previous scheme is still relevant. It should be noted that Anglian Water have been contacted again to confirm this. Once their response has been received, this section of the report will be amended accordingly.

### Foul Sewer Network

- 4.87 An Anglian Water capacity check was carried out for the previous scheme to determine whether there would be sufficient capacity within their existing foul network to accommodate the foul flows from the proposed development. This is in their pre-development enquiry in

**Appendix I** and confirms that there was sufficient capacity in the existing foul network and no improvements would be needed to the network.

## 5 Proposed SuDS Features Information

### SuDS Features and the “Four Pillars of SuDS”

- 5.1 The city center site gives opportunities for “urban types” of SuDS features to be incorporated. These features provide water quality and biodiversity betterments and it is proposed that wherever possible, these features will form the wider SuDS Drainage Strategy. The Full- Planning Application layout allows for numerous bioretention swales and tree-pits within the strategy as well as extensive and intensive green-roof areas. The Outline Planning Application layouts also allow for bioretention systems and green roofs which will be detailed at a later design stage.
- 5.2 The surface water drainage attenuation requirements for the site do not include any attenuation volumes that may be provided by the following features as such, at detailed design stage/post-planning, it is possible that overall storage volumes could be reduced.
- 5.3 For now, the robust surface water drainage strategy as described in Section 4 demonstrates that the proposals can provide a significant betterment to the existing situation in terms of reduced outfall rates and provision of attenuation features which manage all storm events up to and including the 1:100yr + Climate Change event.

### Green Roofs

- 5.4 Green Roofs will provide Amenity, Biodiversity, Water Quality and Water Volume benefits in line with the Four Pillars of SuDS. Amenity space is formed by roof-top gardens and terraces for. Biodiversity is formed by use of extensive and intensive green-roofs. Water Quality, the green roof areas will provide a treatment stage for surface water runoff. Water Volume, green roofs provide attenuation volume and slow the rate of waters entering the main sewer system. Transpiration shall also reduce overall water volumes.
- 5.5 CIRIA SuDS Manual C753 Chapter 12 describes Green Roofs as follows:
- 5.6 *“Green roofs area areas of living vegetation, installed on the top of buildings, for a range of reasons including visual benefit, ecological value, enhanced building performance and the reduction of surface water runoff. Types of green roof can be divided into two main categories:*  
*-Extensive roofs, have low substrate depths (and therefore low loadings on the building structure), simple planting and low maintenance requirements; they tend not to be accessible.*  
*-Intensive roofs (or roof gardens) have deeper substrated (and therefore highwe loadings on the building structure) that can support a wide variety of planting but which tend to require more intensive maintenance; they are usually accessible.”*



- 5.7 The Full Planning proposals include for a number of garden roof terraces which comprise some areas of extensive and intensive type green roof as well as paved areas – these are currently detailed on Blocks A, D, M and K/L. Green roofs are also shown indicatively on Outline Application Blocks E, F, G, J, and H, it is expected that these will also comprise extensive and intensive green roof areas and paved areas. As described above, the drainage calculations in Section 4 do not account for any attenuation that may be available on green roof areas. However, as a general rule, it is assumed that green roofs are saturated when calculating a site's attenuation requirements anyhow.
- 5.8 Green roofs and Garden Roof Terraces will provide water quality and biodiversity benefits to the overall scheme.

#### **Bio-Retention Swales**

- 5.9 Bio-Retention Swales will provide Amenity, Biodiversity, Water Quality and Water Volume benefits in line with the Four Pillars of SuDS. Amenity space is formed by shallow swales with stepping stones and seating areas. Biodiversity is formed by use of suitable planting. In terms of Water Quality, the bioretention swales shall provide a treatment stage for surface water runoff. Water Volume – bioretention swales shall provide attenuation volume and slow the rate of waters entering the main sewer system. Transpiration shall also reduce overall water volumes.
- 5.10 CIRIA SuDS Manual C753 Chapter 18 describes Bio-Retention Systems as follows:

*“Bioretention systems (including rain gardens) are shallow landscaped depressions that can reduce run-off rates and volumes, and treat pollution through the use of engineered soils and vegetation. They are particularly effective in delivering interception and can also provide: attractive landscape features that are self-irrigating and fertilising; habitat and biodiversity; and cooling of the micro-climate due to evapotranspiration.”*



- 5.11 Bio-Retention Swales are proposed within the public realm of the Full Planning Application and Outline Planning Application areas. Where possible, surface water run-off from public realm hardstanding shall be directed to these bioretention systems which shall provide a first stage of attenuation and treatment of run-off. Overflow from these bio-retention swales shall be directed into the wider surface water drainage system.
- 5.12 Norwich County Council's Highway Team have been consulted as part of the application consultation process and have commented upon the provision of bio-retention swales along the western boundary of the site which would collect surface water run-off from Botolph Street and form part of the highway drainage network. They have raised no objection shall require a commuted sum in order to adopt them. This will be detailed further post-planning in any S278/S38 negotiations.

### Tree Planters

- 5.13 Bio-Retention Swales will provide Biodiversity, Water Quality and Water Volume benefits in line with the Four Pillars of SuDS. Biodiversity is formed by use of suitable planting. In terms of Water Quality, the bioretention tree-pit filter mediums shall provide a treatment stage for surface water runoff. Water Volume – bioretention tree-pits shall provide attenuation volume and slow the rate of waters entering the main sewer system. Transpiration shall also reduce overall water volumes.
- 5.14 CIRIA SuDS Manual C753 Chapter 19 describes Tree Systems as follows:

*“Trees and their planting structures provide benefits to surface water management in the following ways:*

*Transpiration – This is the process by which water, taken in from soil by tree roots, is evaporated through the pores or stomata on the surface of leaves. Trees draw large quantities of water from the soil, which can contribute to reducing run-off volumes.*

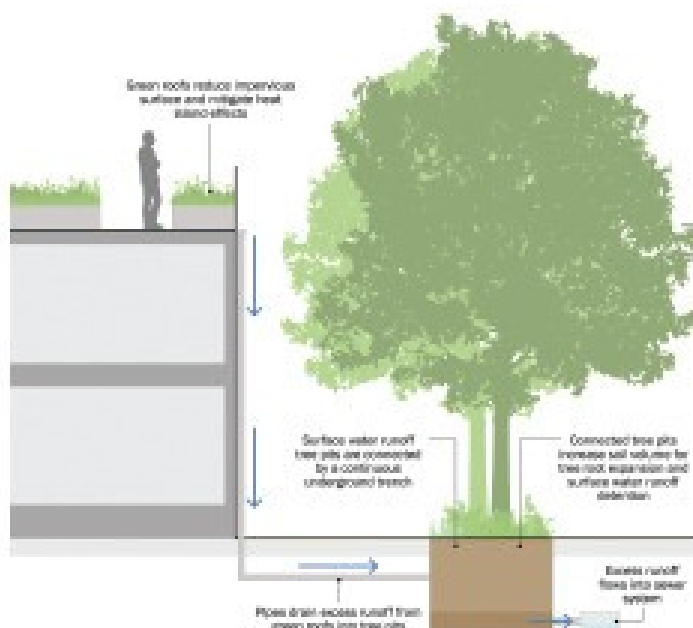
*Interception – Leaves, branches and trunk surfaces intercept (store and allow water to evaporate) and absorb rainfall, reducing the amount of water that reached the ground, delaying the onset and reducing the volume of run-off.*

*Increased infiltration – Root growth and decomposition increase soil infiltration capacity and rate, reducing runoff volumes.*

*Phytoremediation – In the process of drawing water from the soil, trees also take up trace amounts of harmful chemicals, including metals, organic compounds, fuels and solvents that*

are present in the soil. Inside the tree, these chemicals can be transformed into less harmful substances, used as nutrients and/or stored in roots, stems and leaves.

...Tree Planters are essentially bio-retention systems with trees in them, to enhance capacity and performance, and/or to deliver amenity and biodiversity benefits. They have similar functionality and design requirements to standard tree pits, but have open surface and generally a larger surface area, so their overall appearance is different"



- 5.15 Bio-Retention Tree-Pits are proposed within the public realm of the Full Planning Application and Outline Planning Application areas. Where possible, surface water run-off from public realm hardstanding shall be directed to these bioretention systems which shall provide a first stage of attenuation and treatment of run-off. Overflow from these bio-retention swales shall be directed into the wider surface water drainage system.

### Pervious Pavements

- 5.16 Pervious Pavements will provide Water Quality and Water Volume benefits in line with the Four Pillars of SuDS. In terms of Water Quality, the subbase gravels shall provide a treatment stage for surface water runoff. Water Volume – subbase gravels shall provide attenuation volume and slow the rate of waters entering the main sewer system. Some transpiration shall also reduce overall water volumes as waters within the subbase and within sand layers between blocks shall have (little) opportunity to evaporate – this is still to be considered overall.
- 5.17 CIRIA SuDS Manual C753 Chapter 20 describes Pervious Pavements as follows:

*"Pervious surfaces, along with their associated substructures, are an efficient means of managing surface water runoff close to its source – intercepting runoff, reducing the volume and frequency of runoff, and providing a treatment medium. Treatment processes that occur within the surface structure, the subsurface matrix and the geotextile layers include:*

-Filtration  
-Absorption  
-Biodegradation  
-Sedimentation”



- 5.18 Sections of Lined Permeable Block Paving Attenuation System are proposed across the site. The access road and parking areas for Block A in the north of the site; the forecourts in Block H, Block E/F and F; and the hardstanding areas to the south of and in between Blocks G and J will all comprise permeable paving attenuation.

## 6 Maintenance of Development Drainage

- 6.1 The responsibility for ongoing maintenance will be the responsibility of an elected Management and Maintenance Company whom will be appointed by the Site Owner.
- 6.2 The proposed private surface water sewers, attenuation tanks and green/brown roofs should be regularly inspected and maintained to ensure they are effective throughout the lifetime of the development and do not become blocked or damaged over time.
- 6.3 It is proposed to install secondary (back-up) pumps within the pumping chamber for each of the pumps serving the proposed development. The secondary pumps will be programmed to start should the primary pump fail. Both pumps will have an alarm system in place which will be directed to a control panel within the management's office. In addition, an 'Alarm-Tel' feature will be put in place to monitor the state of operation of the various pumps. When a fault occurs it will automatically dial up to three telephone numbers with a pre-recorded message alerting the problem. In the unlikely event that both pumps fail and maintenance hasn't yet had a chance to resolve the problem, it should be noted that no residential dwelling is present at ground floor or basement level within the main Anglia Square development, so if minor flooding should occur the risk to people is low. Please note – the 'Alarm-Tel' feature should be separate to the flood warning sensor on the attenuation tanks, as the attenuation tank reaching capacity could not be detected by the pump.
- 6.4 Some maintenance details for elements of the drainage system from CIRIA SUDS Manual (C753) are included in Tables 6.1 and 6.2 below.

| Maintenance Schedule | Required Action                                                                                                                                                                                | Frequency                               |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| Regular maintenance  | Inspect and identify any areas that are not operating correctly. If required, take remedial action.                                                                                            | Monthly for 3 months, then annually     |
|                      | Remove debris from the catchment surface (where it may cause risks to performance) and from silt traps prior to cells.                                                                         | Monthly                                 |
|                      | For systems where rainfall infiltrates into the tank from above, check surface of filter for blockage by sediment, algae or other matter; remove and replace surface infiltration as necessary | Annually                                |
|                      | Remove sediment from pre-treatment structures and/or internal forebays                                                                                                                         | Annually or as required                 |
| Remedial actions     | Reconstruct soakaway if performance deteriorates or in the event of failure.                                                                                                                   | As required                             |
| Monitoring           | Inspect silt traps and note rate of sediment accumulation                                                                                                                                      | Monthly in the first year then annually |
|                      | Survey inside of tank for sediment build up and remove if necessary.                                                                                                                           | Every 5 years or as required            |

Table 6.1: Maintenance tasks for attenuation tanks (Source: CIRIA C753, The SuDS Manual)

| Maintenance Schedule   | Required Action                                                                                                                                      | Frequency                                                                                                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regular maintenance    | Brushing and vacuuming.                                                                                                                              | Three times per year at end of winter, mid-summer, after autumn leaf fall, or as required based on site specific observations of clogging or manufacturer's recommendations. |
| Occasional maintenance | Stabilise and mow contributing and adjacent areas.                                                                                                   | As required.                                                                                                                                                                 |
|                        | Removal of weeds.                                                                                                                                    | As required.                                                                                                                                                                 |
| Remedial actions       | Remediate any landscaping which, through vegetation maintenance of soil slip, has been raised to within 50mm of the level of the paving.             | As required                                                                                                                                                                  |
|                        | Remedial work to any depressions, rutting and cracked or broken blocks considered detrimental to the structural performance of a hazard to the user. | As required                                                                                                                                                                  |
|                        | Rehabilitation of surface and upper sub-surface.                                                                                                     | As required (if infiltration performance is reduced as a result of significant clogging.)                                                                                    |
| Monitoring             | Initial inspection                                                                                                                                   | Monthly for 3 months after installation. 3 monthly, 48 hours after large storms.                                                                                             |
|                        | Inspect for evidence of poor operation and/or weed growth. If required, take remedial action                                                         | Annually.                                                                                                                                                                    |
|                        | Inspect silt accumulation rates and establish appropriate brushing frequencies.                                                                      | Annually.                                                                                                                                                                    |
|                        | Monitor inspection chambers.                                                                                                                         | Annually                                                                                                                                                                     |

Table 6.2: Maintenance tasks for permeable paving (Source: CIRIA C753, The SuDS Manual)

### Manholes and Sewers

- 6.5 Manhole covers should be lifted each year to remove visible debris and check for blockages – it is suggested that this is undertaken every November after the heaviest leaf-fall has occurred.
- 6.6 Should a blockage occur at any time, it is advised to seek professional help to jet the drainage system to clean and clear the system.

**Gutters and Downpipes**

- 6.7 It is good practice to ensure that these are occasionally inspected to ensure they are in good order and free of leaves & debris. Once every 6 months should be sufficient.

**Orifice Plate with Suitable Filter**

- 6.8 It is advised that maintenance company take time to review the manufactures maintenance recommendations and follow accordingly, with regular inspections anticipated to be required every 3 months and after heavy rainfall events.

## 7 Water Quality Management During Construction

- 7.1 It is anticipated that a suitably worded Condition to Planning shall be included which sets out requirement to confirm any schemes for water quality management during the construction of the development. For guidance and to demonstrate that this has been considered during the planning stage, the following information has been provided:
- 7.2 Activities such as earthworks and construction plant use may result in an increase of silt load in surface water runoff onsite. The presence of heavy plant and other vehicles onsite also introduces the potential for spillages, for example, diesel and hydraulic fluids, wet concrete, construction chemicals and wash-down wastes. Contaminants could enter the sub-soils, surface water, groundwater and nearby watercourse via infiltration and surface water runoff.
- 7.3 Earthmoving operations should be sequenced and timed to avoid heavy rainfall events. This will reduce the risk of soils and silts being mobilised within surface water run-off. Designated vehicle washdown areas shall be provided. Wash-down and surface water run-off from this area will be directed to the drainage network via a silt trap and oil interceptor and a suitable agreement for a temporary use with Anglian Water will be sought. A watching brief for unforeseen contamination of groundwater and surface water will be prepared. Spillages of fuels and chemicals will be controlled in secure bunded areas and containment at refuelling and maintenance facilities in accordance with the EA guidelines.

## 8 Conclusions

- 8.1 EAS have been commissioned by Weston Homes Ltd to prepare a Surface Water Drainage Strategy for the redevelopment of Anglia Square, Norwich, Norfolk.
- 8.2 A separate report, undertaken by others, deals with the flood risk assessment, hydraulic modelling study and impact assessment and should be read in conjunction with this report.
- 8.3 As described in Section 1, it is proposed to make a Hybrid planning application: Full Planning for Blocks, A, B, C, J3, K/L and M and Outline Planning for Blocks E, F, G, H and J.
- 8.4 The proposed surface water drainage strategy for the Hybrid Planning Application site has been based on sustainable principles with aim to provide a significant betterment to the existing situation. Currently the site does not benefit from any attenuation features and as such surface water run-off flows freely into the adopted sewer network, unrestricted and untreated.
- 8.5 The city center site gives opportunities for “urban types” of Sustainable Drainage Systems (SuDS) features to be incorporated. These features provide water quality and biodiversity betterments and it is proposed that wherever possible, these features will form the wider SuDS Drainage Strategy. The proposals include green roofs, bioretention swales, bioretention tree-pits, lined permeable paving and geo-cellular attenuation devices. These will improve water quality, biodiversity and amenity.
- 8.6 An assessment was undertaken to determine the existing surface water run-off from the site and what flow rate would likely enter the adopted sewer network. The assessment was discussed with Anglian Water and it was agreed that the proposed site should achieve a reduction of run-off to the adopted network to a maximum of 242 l/s to manage all storms up to and including the 1:100yr + 45% Climate Change Event. This will be the equivalent of 43% of the existing 1:1yr surface water run-off rate, a significant reduction.
- 8.7 The development parcels have been split into 9no. drainage catchments. Each catchment has a restricted outfall to the adopted surface water sewer network and attenuation designed to accommodate a 1:100yr + Climate Change Storm Event. Suitable water treatment stages, in line with CIRIA SuDS Manual are proposed and will provide an improvement to the existing situation, where waters enter the adopted sewer network, untreated.
- 8.8 Due to the surface water flood risk within the city of Norwich, it is proposed that the attenuation tanks will have capacity sensors and alarms fitted within them which monitor how full they become during storm events. The attenuation tanks will likely collect run-off from both roof and hardstanding areas and it is not possible to prevent any exceedance surface water run-off flows from off-site from entering the proposed drainage systems. The alarm would trigger in the Anglia Square management office, and it would be the management’s responsibility to distribute the warning to each of the ground floor and retail, commercial and leisure uses. This would allow them time to evacuate, safeguard and close their premises. The flood warning strategy has been discussed further the separate FRA document by Royal Haskoning DHV.
- 8.9 Maintenance of the attenuation features will remain the responsibility of the site owner or an appointed management company. The Anglian Water sewers that pass through the site will remain the responsibility of Anglian Water.

- 8.10 In line with the Four Pillars of SuDS, the proposed surface water drainage strategy, covering 9no catchments, will provide Water Quality, Amenity, Biodiversity and Water Volume benefits/improvements.



## 9 Appendices

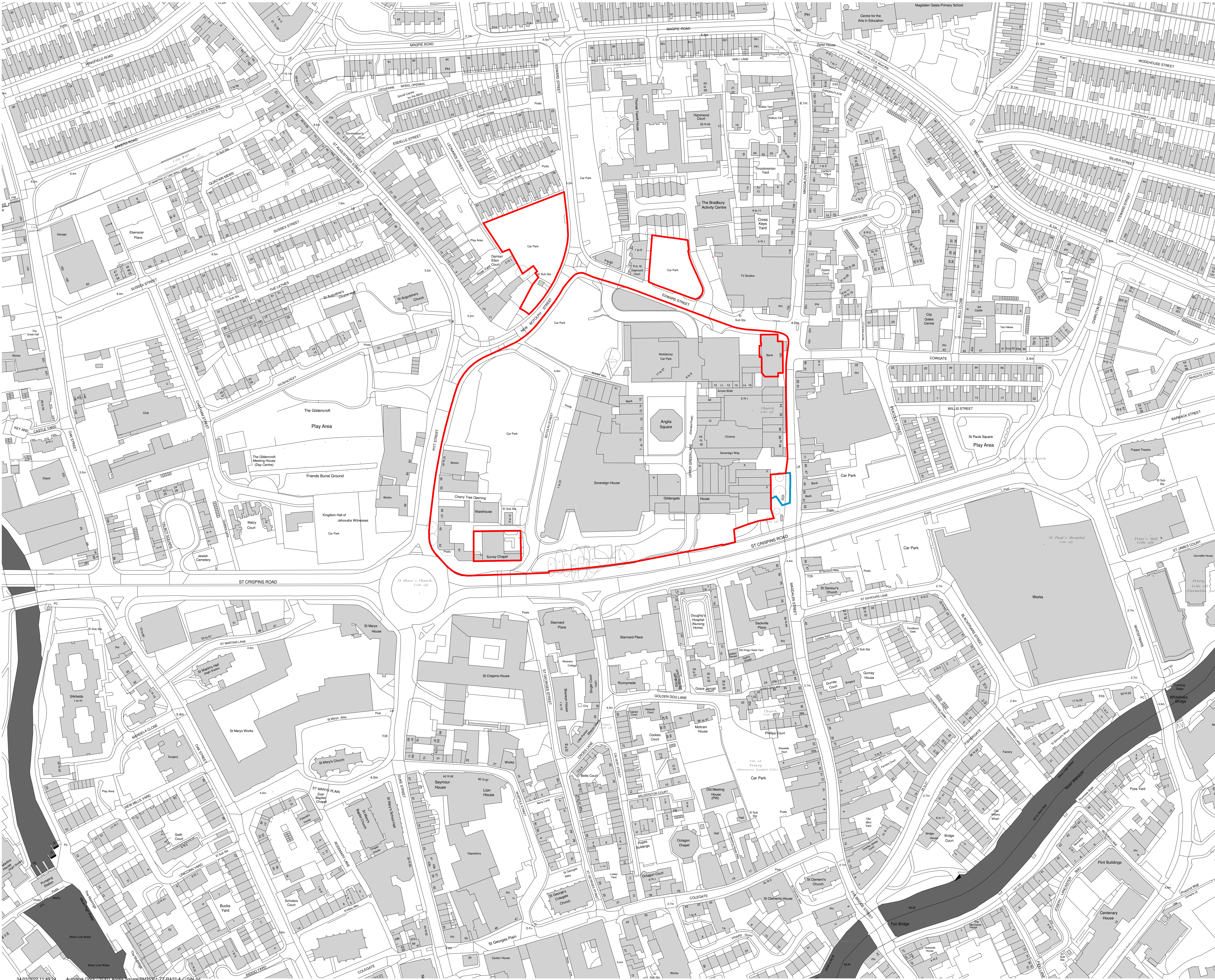
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## Appendix: A – Location Plan

Anglia Square, Norwich, Norfolk NR3 1DZ

Site





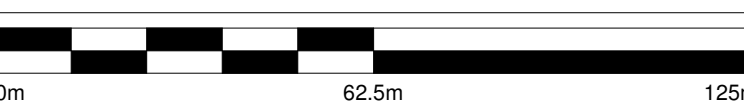
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### General Notes

All figures and areas are approximate only and subject to statutory constraints, detail design & design development

**Structural Design:** Subject to structural input & coordination

**Services Design:** Subject to services input & coordination

**Fire Strategy:** Subject to fire input & coordination

- Application Boundary
- Land Owned by CT to be subject to separate application for part of the Mobility Hub

|          |          |                      |
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| D0-1     | 31.03.22 | Issued For Planning  |
| Revision | Date     | Drawn By Description |

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Client  
**Weston Homes**  
Project  
**Anglia Square  
Norwich**  
Description  
**Hybrid Application - Location Plan  
on Existing OS Base**

|            |              |                |                    |
|------------|--------------|----------------|--------------------|
| Status     | For Planning | Date           | 31.03.22           |
| Scale      | 1:1250@A1 BM | Drawn By       |                    |
| Job Number | 35301        | Drawing Number | ZZ-00-DR-A-01-1000 |
|            |              | Revision       | D0-1               |

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### **Anglia Square: Hybrid Application Development Description**

“Hybrid (part full/part outline) application on site of 4.65ha for demolition and clearance of all buildings and structures and the phased, comprehensive redevelopment of the site with 14 buildings ranging in height from 1 to 8 storeys, for a maximum of 1,100 residential dwellings, (houses, duplexes and flats) (Use Class C3); a maximum of 8,000 sqm flexible retail, commercial and other non-residential floorspace (retail, business, services, food and drink premises, offices, workshops, non-residential institutions, community hub, local community uses, and other floorspace (Use Classes E/F1/F2/Sui Generis (public conveniences, drinking establishments with expanded food provision, bookmakers and/or nail bars (up to 550sqm), and dry cleaner (up to 150sqm))); service yard, cycle and refuse stores, plant rooms, car parking and other ancillary space; with associated new and amended means of access on Edward Street and Pitt Street, closure of existing means of access on Edward Street, New Botolph Street, Pitt Street and St Crispins Road flyover, formation of cycle path between Edward Street and St Crispins Road, formation of wider footways, laybys and other associated highway works on all boundaries, formation of car club parking area off New Botolph Street, up to 450 car parking spaces (at least 95% spaces for class C3 use, and up to 5% for class E/F1/F2/Sui Generis uses), hard and soft landscaping of public open spaces comprising streets and squares/courtyards for pedestrians and cyclists, other landscape works within existing streets surrounding the site, service infrastructure and other associated work; (All floor areas given as maximum Net Internal Area);

Comprising;

Full planning permission on 2.25ha of the site for demolition and clearance of all buildings and structures, erection of 8 buildings ranging in height from 1 to 7 storeys for 353 residential dwellings (Use Class C3) (142 dwellings in Block A, 25 dwellings in Block B, 21 dwellings in Block C, 28 dwellings in Block D, 8 dwellings in Block J3, 81 dwellings in Block K/L, and 48 dwellings in Block M) with associated cycle and refuse stores), and, for 5,411sqm flexible retail, commercial and other non-residential floorspace (retail, business, services, food and drink premises, offices, workshops, non-residential institutions, community hub, local community uses, and other floorspace (Use Classes E/F1/F2/Sui Generis (public conveniences, drinking establishments with expanded food provision, bookmakers and/or nail bars (up to 550sqm), and dry cleaner (up to 150sqm))), service yard, cycle and refuse stores, plant rooms, car parking and other ancillary space, with associated new and amended means of access on Edward Street, closure of existing means of access on Edward Street and New Botolph Street, formation of cycle path from Edward Street to St Crispins Road, formation of wider footways, laybys and other associated highway works on Edward Street, New Botolph Street, and Magdalen Street, formation of car club parking area off New Botolph Street, 137 car parking spaces (at least 95% spaces for class C3 use, and up to 5% for class E/F1/F2/Sui Generis uses) within Blocks A and B, hard and soft landscape works to public open spaces comprising streets and squares for pedestrians and cyclists, other landscape works, service infrastructure and other associated works; (All floor areas given as maximum Net Internal Areas);

and

Outline planning permission on 2.4ha of the site, with landscaping and appearance as reserved matters, for demolition and clearance of all buildings and structures, erection of 6 buildings (Blocks E – H and J) ranging in height from 2 to 8 stories for up to 747 residential dwellings, (houses, duplexes, and flats) (Use Class C3), a maximum of 2,589 sqm flexible retail, commercial and other non-residential floorspace (retail, business, services, food and drink premises, offices, non-residential institutions, local community uses and other floorspace (Use Classes E/F1/F2/Sui Generis (drinking

establishments with expanded food provision, bookmakers and/or nail bars (up to 550sqm), and dry cleaner (up to 150sqm)); cycle and refuse stores, plant rooms, car parking and other ancillary space; with associated new and altered means of access on Pitt Street and St Crispins Road, closure of means of access on Pitt Street and St Crispins Road flyover, formation of wider footways, laybys and other associated highway works on Pitt Street and St Crispins Road, a maximum of 313 car parking spaces (at least 95% spaces for class C3 use, and up to 5% for class E/F1/F2/Sui Generis uses), service infrastructure and other associated works (landscaping and appearance are reserved matters); (All floor areas given as maximum Net Internal Areas)."

## Appendix: B – Proposed Development Plans



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Landscape shown is for illustrative purposes only. For detailed landscape information, please refer to the landscape information & documents.

0m25m50m

N

General Notes

All figures and areas are approximate only and subject to statutory constraints, detail design & design development

**Structural Design:** Subject to structural input & coordination

**Services Design:** Subject to services input & coordination

**Fire Strategy:** Subject to fire input & coordination

- Application Boundary
- Land Owned by CT to be subject to separate application for part of the Mobility Hub
- Existing Buildings

- Site B - Area 0.27 ha
- Site C - Area 0.13 ha
- Application Boundary (All Blocks) and public realm - Area 4.65ha
- Detailed Application (Block A,B,C,D,M,KL & J3) and public realm - Area 2.25ha

|          |          |                     |             |
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Client

**Weston Homes**

Project

**Anglia Square  
Norwich**

Description

**Hybrid Application Site Plan  
Block Plan on Proposed layout**

Status

**For Planning**

Scale

1:500@A1

Drawn By

BM

Date

31.03.22

Job Number

35301

Drawing Number

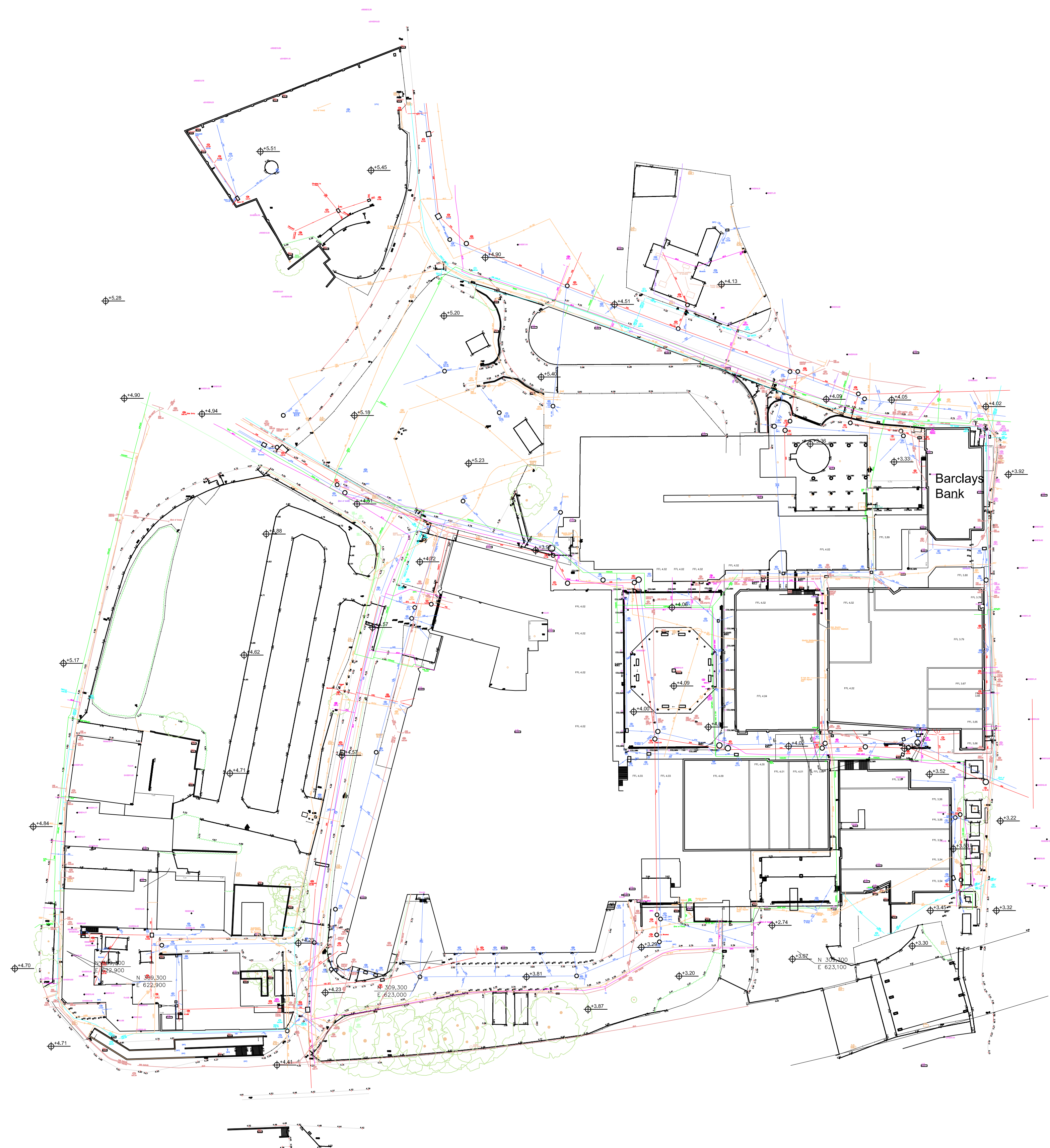
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Revision

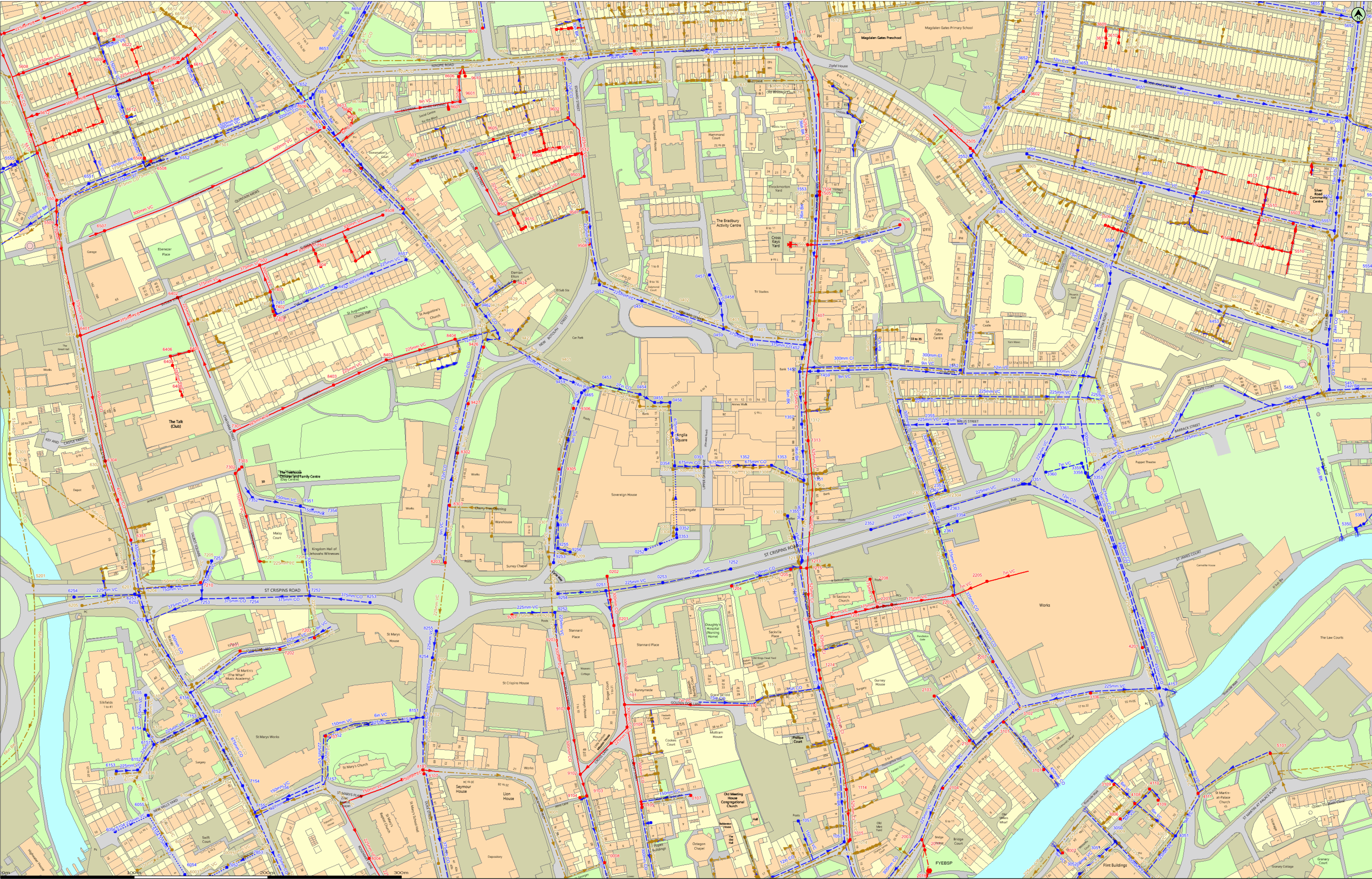
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## Appendix: C – Topographical Survey



## Appendix: D – Thames Water Sewer Mapping



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Map Centre: 623069.309376

Data updated: 31/05/22

Our Ref: 882987 - 1

Wastewater Plan A1

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- |                       |           |          |
|-----------------------|-----------|----------|
| Foul Sewer            | — — — — — | Outfall* |
| Surface Sewer         | — — — — — |          |
| Combined Sewer        | — — — — — |          |
| Final Effluent        | — — — — — |          |
| Rising Main*          | — — — — — |          |
| Private Sewer*        | — — — — — |          |
| Decommissioned Sewer* | — — — — — | Manhole* |

- |   |                                |
|---|--------------------------------|
| Ⓔ | Sewage Treatment Works         |
| Ⓔ | Public Pumping Station         |
| ● | Decommissioned Pumping Station |
|   | (Colour denotes effluent type) |

james.cahuzac@eastp.co.uk

Anglia Square







## Appendix: E – Existing Run-off Rates

## Runoff calculations- Modified Rational Method

$$Q = CiA \quad \text{where} \quad C = \frac{PIMP}{PR}$$

PIMP = Percentage of impervious area to total area

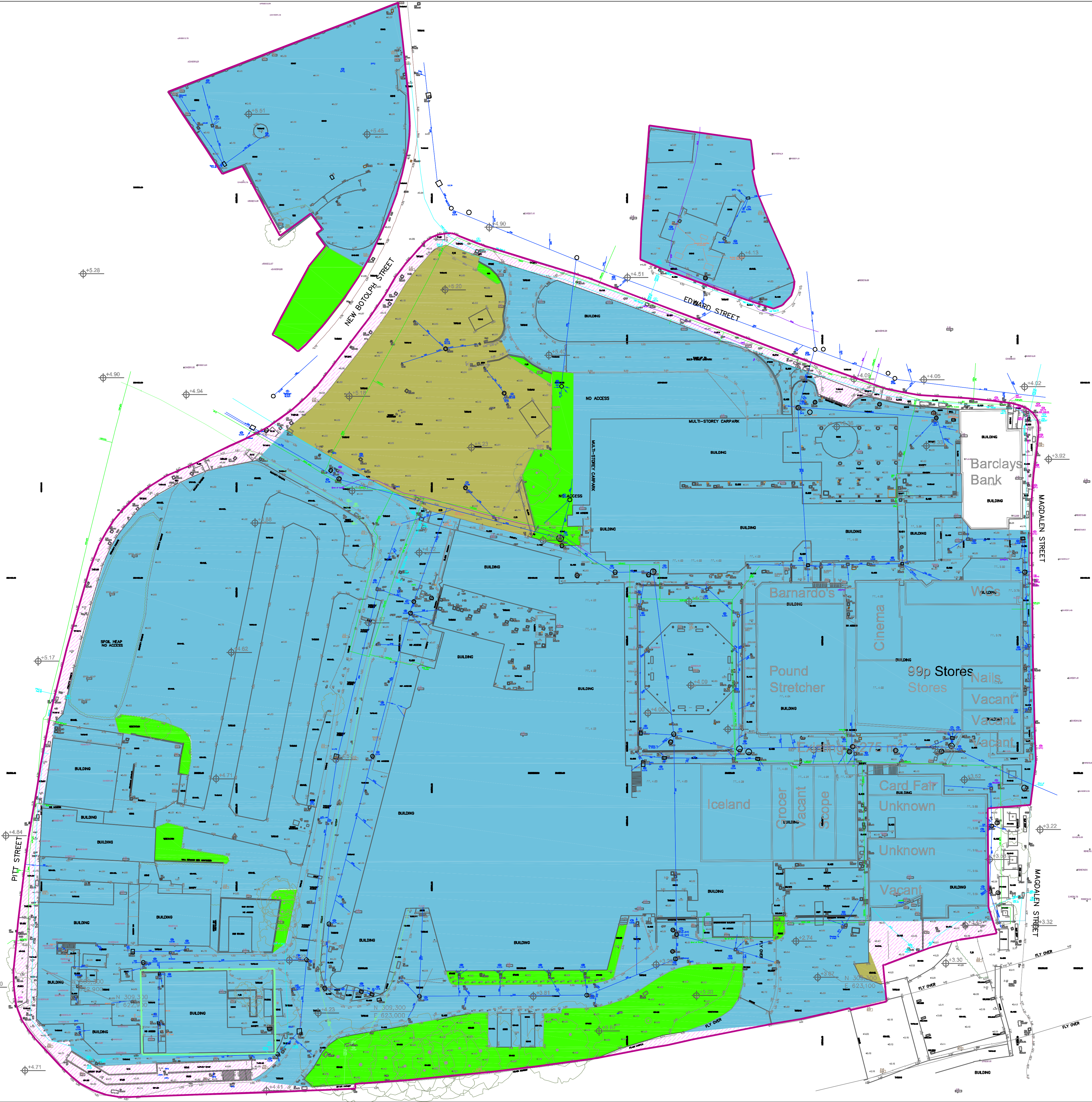
PR = Percentage Runoff

C=1

|                        |           |                |
|------------------------|-----------|----------------|
| C                      | 1         |                |
|                        |           |                |
| Rainfall intensity (i) | 50        | mm/hr          |
|                        | 0.05      | m/hr           |
|                        | 0.0000139 | m/s            |
|                        |           |                |
| Site size (A)          | 40712     | m <sup>2</sup> |
|                        |           |                |
| Q for existing site    | 565.44    | l/s            |

Ref: Butler, D and Davies, J. (2006), Urban Drainage, 2nd ed, SPON.

## Appendix: F – Existing Run-off Catchments



- AREAS OF ADOPTED PUBLIC HIGHWAY: NOT INCLUDED IN THESE CALCULATIONS
- AREA OF PERMEABLE SURFACE OR LANDSCAPING IT IS EXPECTED THAT SOME GREEN-FIELD RUNOFF WOULD OCCUR HOWEVER THESE RATES D SHALL NOT BE INCLUDED IN EXISTING RUN-OFF CALCULATIONS TO BE CONSERVATIVE.
- AREA OF CAR PARK WHICH DRAINS TO PRIVATE DRAINAGE SYSTEM AND NOT INTO ANGLIAN WATER SEWERS.
- AREA OF IMPERMEABLE SURFACE THAT DRAINS SURFACE WATER RUN-OFF TO EXISTING ANGLIAN WATER SURFACE WATER SEWERS (39,555m<sup>2</sup>)

| REV                                                                                                                                             | DATE | BY                    | DESCRIPTION | CHK                 | APD |
|-------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------|-------------|---------------------|-----|
| DRAWING STATUS:                                                                                                                                 |      |                       |             |                     |     |
| FOR INFORMATION                                                                                                                                 |      |                       |             |                     |     |
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| CLIENT:                                                                                                                                         |      |                       |             |                     |     |
| WESTON HOMES                                                                                                                                    |      |                       |             |                     |     |
| ARCHITECT:                                                                                                                                      |      |                       |             |                     |     |
| PROJECT:                                                                                                                                        |      |                       |             |                     |     |
| ANGLIA SQUARE,<br>NORWICH                                                                                                                       |      |                       |             |                     |     |
| TITLE:                                                                                                                                          |      |                       |             |                     |     |
| EXISTING IMPERMEABLE AREAS<br>WHICH DRAIN SURFACE WATER TO<br>ANGLIAN WATER SURFACE WATER SEWERS                                                |      |                       |             |                     |     |
| SCALE @ A1:<br>1:500                                                                                                                            |      | DESIGN-DRAWN:<br>MD   |             | DATE:<br>06.04.2017 |     |
| PROJECT No:<br>3831                                                                                                                             |      | DRAWING No:<br>SK01-A |             |                     |     |

## Appendix: G –

## Appendix: H – Greenfield Run-off Rates

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|
| EAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               | Page 1                                                                              |
| Unit 108 The Maltings<br>Stanstead Abbotts<br>Hertfordshire SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                          |                               |  |
| Date 19/02/2018 10:04<br>File                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Designed by Maz<br>Checked by |                                                                                     |
| Micro Drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               | Source Control 2013.1.1                                                             |
| <p align="center"><u>ICP SUDS Mean Annual Flood</u></p> <p align="center">Input</p> <p> Return Period (years)    100                      Soil            0.150<br/> Area (ha)    1.000                      Urban            0.000<br/> SAAR (mm)    614    Region Number    Region 5 </p> <p align="center"><b>Results    1/s</b></p> <p> QBAR Rural    0.3<br/> QBAR Urban    0.3<br/> <br/> Q100 years    1.2<br/> <br/> Q1 year    0.3<br/> Q30 years    0.8<br/> Q100 years    1.2 </p> |                               |                                                                                     |
| <p align="center">©1982-2013 Micro Drainage Ltd</p>                                                                                                                                                                                                                                                                                                                                                                                                                                           |                               |                                                                                     |

## Appendix: I – Anglian Water Approval In Principle



# Pre-Planning Assessment Report

Anglia Square

InFlow Reference: PPE-0143339

Assessment Type: Used Water

Report published: 08/04/2022



Thank you for submitting a pre-planning enquiry.

This has been produced for EAS Transport Planning Ltd.

Your reference number is **PPE-0143339**.

This report can be submitted as a drainage strategy for the development should it seek planning permission.

If you have any questions upon receipt of this report, you can submit a further question via InFlow. Alternatively, please contact the Planning & Capacity team on **07929 786 955** or email [planningliaison@anglianwater.co.uk](mailto:planningliaison@anglianwater.co.uk)

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## Section 1 - Proposed development

The response within this report has been based on the following information which was submitted as part of your application:

| List of planned developments |              |
|------------------------------|--------------|
| Type of development          | No. Of units |
| Shops                        | 50           |
| Restaurants and cafes        | 25           |
| Dwellings                    | 1500         |

The anticipated residential build rate is:

| Year       | Y1 | Y2 | Y3 | Y4 | Y5 | Y6 | Y7 | Y8 | Y9 | Y10 | Y11 | Y12  |
|------------|----|----|----|----|----|----|----|----|----|-----|-----|------|
| Build rate | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50 | 50  | 50  | 1025 |

**Development type:** Brownfield  
**Planning application status:** Unknown  
**Site grid reference number:** TG2302009411

The comments contained within this report relate to the public water mains and sewers indicated on our records. Your attention is drawn to the disclaimer in the useful information section of this report.

## Section 2 - Assets affected

Our records indicate that we have the following types of assets within or overlapping the boundary of your development site as listed in the table below.

Additionally, it is highly recommended that you carry out a thorough investigation of your proposed working area to establish whether any unmapped public or private sewers and lateral drains are in existence. We are unable to permit development either over or within the easement strip without our prior consent. The extent of the easement is provided in the table below. Please be aware that the existing water mains/public sewers should be located in highway or open space and not in private gardens. This is to ensure available access for any future maintenance and repair and this should be taken into consideration when planning your site layout.

| Water and Used water easement information |                |                                       |
|-------------------------------------------|----------------|---------------------------------------|
| Asset type                                | Pipe size (mm) | Total easement required (m)           |
| Water mains                               | 152            | 6.00 m overall easement               |
| Water mains                               | 76             | 6.00 m overall easement               |
| Water mains                               | 102            | 4.50 m overall easement               |
| Water mains                               | 127            | 6.00 m overall easement               |
| Water mains                               | 102            | 4.50 m overall easement               |
| Sewer mains                               | 675            | 6.00 m either side of the centre line |
| Sewer mains                               | 300            | 3.00 m either side of the centre line |
| Sewer mains                               | 225            | 3.00 m either side of the centre line |
| Sewer mains                               | 150            | 3.00 m either side of the centre line |
| Sewer mains                               | 9              | 3.00 m either side of the centre line |
| Sewer mains                               | Unknown        | 3.00 m either side of the centre line |
| Sewer mains                               | 27             | 3.00 m either side of the centre line |
| Sewer mains                               | 7              | 4.50 m either side of the centre line |
| Sewer mains                               | 850            | 4.00 m either side of the centre line |
| Sewer mains                               | 36             | 3.00 m either side of the centre line |
| Sewer mains                               | 24             | 6.00 m either side of the centre line |
| Sewer mains                               | 375            | 3.00 m either side of the centre line |
| Sewer mains                               | 225            | 3.00 m either side of the centre line |

If it is not possible to avoid our assets then these may need to be diverted in accordance with Section 185 of the Water Industry Act (1991). You will need to make a formal application if you would like a diversion to be considered.

Due to the private sewer transfer in October 2011 many newly adopted public used water assets and their history are not indicated on our records. You also need to be aware that your development site may contain private water mains, drains or other assets not shown on our records. These are private assets and not the responsibility of Anglian Water but that of the landowner.

### **Section 3 - Water recycling services**

In examining the used water system we assess the ability for your site to connect to the public sewerage network without causing a detriment to the operation of the system. We also assess the receiving water recycling centre and determine whether the water recycling centre can cope with the increased flow and effluent quality arising from your development.

#### **Water recycling centre**

The foul drainage from the proposed development is in the catchment of Whitlingham Trowse Water Recycling Centre, which currently has capacity to treat the flows from your development site. Anglian Water cannot reserve capacity and the available capacity at the water recycling centre can be reduced at any time due to growth, environmental and regulation driven changes.

#### **Used water network**

Our assessment has been based on development flows connecting to the nearest foul water sewer of the same size or greater pipe diameter to that required to drain the site. The infrastructure to convey foul water flows to the receiving sewerage network is assumed to be the responsibility of the developer. Conveyance to the connection point is considered as Onsite Work and includes all work carried out upstream from of the point of connection, including making the connection to our existing network. This connection point has been determined in reference to the calculated discharge flow and on this basis, a 375mm internal diameter pipe is required to drain the development site. The preferred connection point at manhole 1310 is to a 300mm sewer, that does not have capacity to accommodate the flows from the full development. The foul sewerage system will have capacity for the development if the connection is made over several points across the network surrounding the development site.

In order to assess a suitable drainage strategy and provide connection points, please provide us with a site layout and phasing plan. Anglian water has assessed the impact of gravity flows from the planned development to the public foul sewerage network. We can confirm that this is acceptable as the foul sewerage system, at present, has available capacity for your site.

Please note that Anglian Water will request a suitably worded condition at planning application stage to ensure this strategy is implemented to mitigate the risk of flooding.

It is assumed that the developer will provide the necessary infrastructure to convey flows from the site to the network. Consequently, this report does not include any costs for the conveyance of flows.

#### **Surface water disposal**

In principle, your proposed method of surface water disposal is acceptable to Anglian Water. It is our understanding that the evidence to confirm compliance with the surface water hierarchy is not available. Once the evidence has been confirmed, then a connection point may be made to manhole 1355 at NGR TG 23145 09319 at a rate of 242l/s. Our assessment has been based on development flows connecting to the nearest surface water sewer of the same size or greater pipe diameter. It is your responsibility to provide the evidence to confirm that all alternative methods of surface water disposal have been explored and these will be required before your connection can be agreed. This is subject to satisfactory evidence which shows the surface water management hierarchy as outlined in Building Regulations Part H has been explored. This would encompass the results from the site specific infiltration testing and/or confirmation that the flows cannot be discharged to a watercourse. Anglian Water's surface water policy follows the Surface Water hierarchy, outlined in Part H of the Building Regulations. Should your assumptions or evidence change then an alternative solution, connection point or flow rate may be required.

You are therefore advised to update Anglian Water with the key supporting evidence at your earliest convenience.

As you may be aware, Anglian Water will consider the adoption of SuDs provided that they meet the criteria outline in our SuDs adoption manual. This can be found on our [website](#). We will adopt features located in public open space that are designed and constructed, in conjunction with the Local Authority and Lead Local Flood Authority (LLFA), to the criteria within our SuDs adoption manual. Specifically, developers must be able to demonstrate:

1. Effective upstream source control,
2. Effective exceedance design, and
3. Effective maintenance schedule demonstrating that the assets can be maintained both now and in the future with adequate access.

If you wish to look at the adoption of any SuDs then an expression of interest form can be found on our [website](#)

#### **Trade Effluent**

We note that you do not have any trade effluent requirements. Should this be required in the future you will need our written formal consent. This is in accordance with Section 118 of the Water Industry Act (1991).

#### **Used Water Budget Costs**

Your development site will be required to pay an Infrastructure charge for each new property connecting to the public water and sewerage network that benefits from Full planning permission. The infrastructure charge replaces the zonal charge as previously identified.

You will be required to pay an infrastructure charge upon connection for each new plot on your development site. The infrastructure charge are types of charges set out in Section 146(2) of the Water Industry Act 1991.

The charge should be paid by anyone who wishes to build or develop a property and is payable upon request of connection.

- The Infrastructure Charge is based on the cost of any reinforcement and upgrades to our existing network (“Network Reinforcements”), whether designed to address strategic or local capacity issues. For more information on our Infrastructure Charge, please see the ‘Useful Information’ section of this report.

Infrastructure charges are raised on a standard basis of one charge per new connection (one for water and one for sewerage).

#### **The Water Recycling Infrastructure charge for your dwellings is:**

| Infrastructure charge | Number of units | Total       |
|-----------------------|-----------------|-------------|
| £ 490                 | 1500            | £735,000.00 |

Please note that you should also budget for infrastructure charges on non-household premises where applicable and these will be calculated according to the number and type of water fittings in the premises. This is called the “relevant multiplier” method of calculating the charge and the relevant multiplier will be applied to the figures set out in our 2022-23 Developer Charging Arrangements to arrive at the amount payable. Details of the relevant multiplier for each fitting can be found on our [website](#).

## Section 4 - Map of Proposed Point of Connection(s)

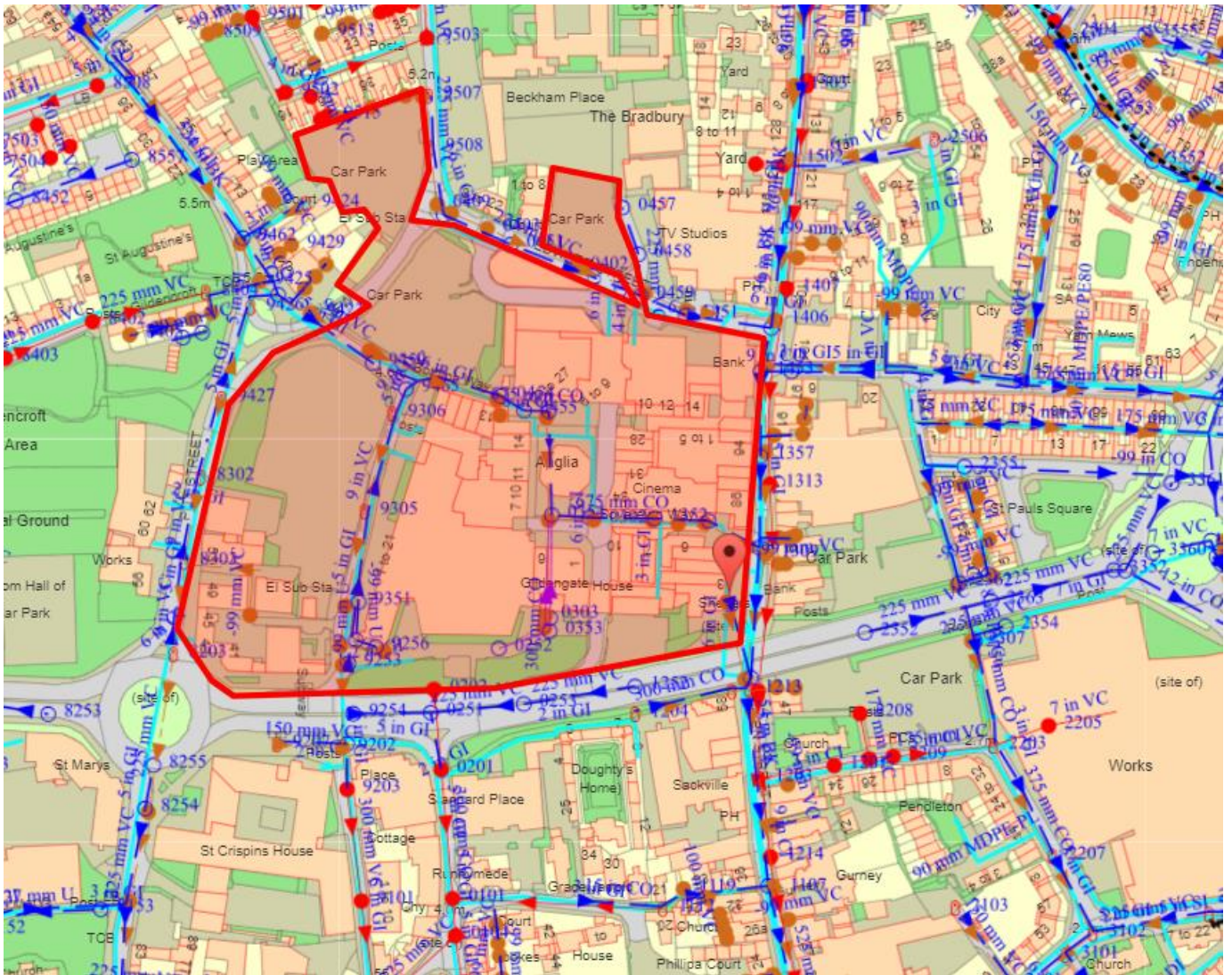


Figure 2: Showing your water recycling surface water point of connection

## **Section 5 - Useful information**

### **Water Industry Act – Key used water sections**

#### **Section 98:**

This provides you with the right to requisition a new public sewer. The new public sewer can be constructed by Anglian Water on your behalf. Alternatively, you can construct the sewer yourself under section 30 of the Anglian Water Authority Act 1977.

#### **Section 102:**

This provides you with the right to have an existing sewerage asset vested by us. It is your responsibility to bring the infrastructure to an adoptable condition ahead of the asset being vested.

#### **Section 104:**

This provides you with the right to have a design technically vetted and an agreement reached that will see us adopt your assets following their satisfactory construction and connection to the public sewer.

#### **Section 106:**

This provides you with the right to have your constructed sewer connected to the public sewer.

#### **Section 185**

This provides you with the right to have a public sewerage asset diverted.

Details on how to make a formal application for a new sewer, new connection or diversion are available on our [website](#) or via our Development Services team on **0345 60 66 087**.

### **Sustainable drainage systems**

Many existing urban drainage systems can cause problems of flooding, pollution or damage to the environment and are not resilient to climate change in the long term. .

Our preferred method of surface water disposal is through the use of Sustainable Drainage Systems or SuDS.

SuDS are a range of techniques that aim to mimic the way surface water drains in natural systems within urban areas. For more information on SuDS, please visit our [website](#)

We recommend that you contact the Local Authority and Lead Local Flood Authority (LLFA) for your site to discuss your application.

### **Private sewer transfers**

Sewers and lateral drains connected to the public sewer on the 1 July 2011 transferred into Water Company ownership on the 1 October 2011. This follows the implementation of the Floods and Water Management Act (FWMA). This included sewers and lateral drains that were subject to an existing Section 104 Adoption Agreement and those that were not. There were exemptions and the main non-transferable assets were as follows:

Surface water sewers and lateral drains that do not discharge to the public sewer, e.g. those that discharged to a watercourse.

Foul sewers and lateral drains that discharged to a privately owned sewage treatment/collection facility.

Pumping stations and rising mains will transfer between 1 October 2011 and 1 October 2016.

The implementation of Section 42 of the FWMA will ensure that future private sewers will not be created. It is anticipated that all new sewer applications will need to have an approved section 104 application ahead of a section 106 connection.

It is anticipated that all new sewer applications will need to have an approved Section104 application ahead of a Section 106 connection

## **Encroachment**

Anglian Water operates a risk based approach to development encroaching close to our used water infrastructure. We assess the issue of encroachment if you are planning to build within 400 metres of a water recycling centre or, within 15 metres to 100 metres of a pumping station. We have more information available on our [website](#)

## **Locating our assets**

Maps detailing the location of our water and used water infrastructure including both underground assets and above ground assets such as pumping stations and recycling centres are available from [digdat](#)

All requests from members of the public or non-statutory bodies for maps showing the location of our assets will be subject to an appropriate administrative charge.

We have more information on our [website](#)

## **Charging arrangements**

Our charging arrangements and summary for this year's water and used water connection and infrastructure charges can be found on our [website](#)

## **Section 6 - Disclaimer**

The information provided in this report is based on data currently held by Anglian Water Services Limited ('Anglian Water') or provided by a third party. Accordingly, the information in this report is provided with no guarantee of accuracy, timeliness, completeness and is without indemnity or warranty of any kind (express or implied).

This report should not be considered in isolation and does not nullify the need for the enquirer to make additional appropriate searches, inspections and enquiries. Anglian Water supports the plan led approach to sustainable development that is set out in the National Planning Policy Framework ('NPPF') and any infrastructure needs identified in this report must be considered in the context of current, adopted and/or emerging local plans. Where local plans are absent, silent or have expired these needs should be considered against the definition of sustainability holistically as set out in the NPPF.

Whilst the information in this report is based on the presumption that proposed development obtains planning permission, nothing in this report confirms that planning permission will be granted or that Anglian Water will be bound to carry out the works/proposals contained within this report.

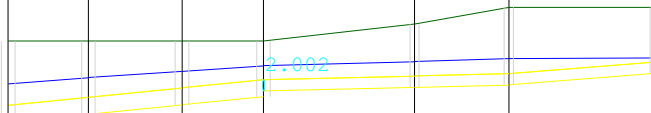
No liability whatsoever, including liability for negligence is accepted by Anglian Water or its partners, employees or agents, for any error or omission, or for the results obtained from the use of this report and/or its content.

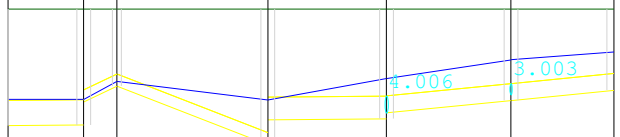
Furthermore, in no event will any of those parties be liable to the applicant or any third party for any decision made or action taken as a result of reliance on this report.

This report is valid from the date issued and the enquirer is advised to resubmit their request for an up to date report should there be a delay in submitting any subsequent application for water supply/sewer connection(s). Our pre-planning reports are valid for 12 months, however please note Anglian Water cannot reserve capacity and available capacity in our network can be reduced at any time due to increased requirements from existing businesses and houses as well as from new housing and new commercial developments.

## Appendix J – Hydraulic Model Outputs

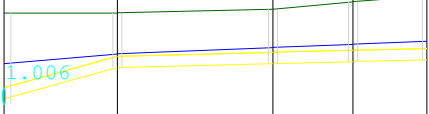
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|-----------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                |                                               | Page 1                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | Block A, M, J3 and K/L<br>SW Drainage Network |  |
| Date 13/07/2022 22:29<br>File 20220713-Block A, M J3 ...              | Designed by EAS<br>Checked by                 |                                                                                     |
| Innovyze                                                              | Network 2020.1.3                              |                                                                                     |

| MH Name          | MH10                                                                               |       | MH08   |       | MH03   | MH02   | MH01   |       |
|------------------|------------------------------------------------------------------------------------|-------|--------|-------|--------|--------|--------|-------|
| Hor Scale 1000   |  |       |        |       |        |        |        |       |
| Ver Scale 200    |                                                                                    |       |        |       |        |        |        |       |
| Datum (m)-1.000  |                                                                                    |       |        |       |        |        |        |       |
| PN               |                                                                                    |       | 1.004  |       | 1.002  | 1.001  | 1.000  |       |
| Dia (mm)         |                                                                                    |       | 450    |       | 300    | 300    | 300    |       |
| Slope (1:X)      |                                                                                    |       | 50.0   |       | 200.0  | 198.4  | 62.5   |       |
| Cover Level (m)  | 4.050                                                                              | 4.050 | 4.050  | 4.050 | 4.500  | 4.950  | 4.950  |       |
| Invert Level (m) | 1.902                                                                              | 2.114 | 2.114  | 2.362 | 2.578  | 2.828  | 2.891  | 3.200 |
| Length (m)       |                                                                                    |       | 12.400 |       | 20.000 | 12.500 | 19.300 |       |

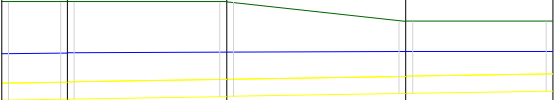
| MH Name          |                                                                                      |       | PUMP AND GEO | MH35   | MH15   | MH10   |       |
|------------------|--------------------------------------------------------------------------------------|-------|--------------|--------|--------|--------|-------|
| Hor Scale 1000   |  |       |              |        |        |        |       |
| Ver Scale 200    |                                                                                      |       |              |        |        |        |       |
| Datum (m)-2.000  |                                                                                      |       |              |        |        |        |       |
| PN               |                                                                                      |       | 1.009        | 1.008  | 1.007  | 1.006  |       |
| Dia (mm)         |                                                                                      |       | 325          | 600    | 450    | 450    |       |
| Slope (1:X)      |                                                                                      |       | -12.9        | 490.6  | 50.0   | 50.0   |       |
| Cover Level (m)  | 4.050                                                                                | 4.050 | 4.050        | 4.050  | 4.050  | 4.050  |       |
| Invert Level (m) | 0.964                                                                                | 0.984 | 2.010        | 0.458  | 1.150  | 1.630  | 1.902 |
| Length (m)       |                                                                                      |       | 20.000       | 15.700 | 16.500 | 13.600 |       |

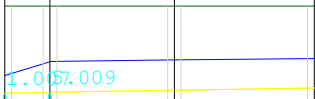
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|-----------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                |                                               | Page 2                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | Block A, M, J3 and K/L<br>SW Drainage Network |  |
| Date 13/07/2022 22:29<br>File 20220713-Block A, M J3 ...              | Designed by EAS<br>Checked by                 |                                                                                     |
| Innovyze                                                              | Network 2020.1.3                              |                                                                                     |

| MH Name          | MH07                                                                               | MH06           | MH04           |
|------------------|------------------------------------------------------------------------------------|----------------|----------------|
| Hor Scale 1000   |  |                |                |
| Ver Scale 200    |                                                                                    |                |                |
| Datum (m)-1.000  |                                                                                    |                |                |
| PN               |                                                                                    | 2.002          | 2.000          |
| Dia (mm)         |                                                                                    | 300            | 300            |
| Slope (1:X)      |                                                                                    | 200.0          | 200.0          |
| Cover Level (m)  | 4.050                                                                              | 4.050          | 4.050          |
| Invert Level (m) | 2.728                                                                              | 2.844<br>2.844 | 2.905<br>2.905 |
| Length (m)       |                                                                                    | 23.200         | 13.200         |

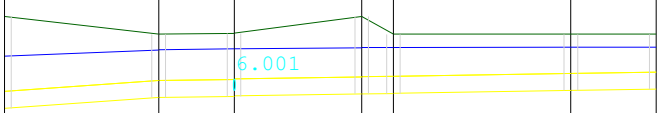
| MH Name          | MH15                                                                                 | MH14           | MH13           |                |       |
|------------------|--------------------------------------------------------------------------------------|----------------|----------------|----------------|-------|
| Hor Scale 1000   |  |                |                |                |       |
| Ver Scale 200    |                                                                                      |                |                |                |       |
| Datum (m)-2.000  |                                                                                      |                |                |                |       |
| PN               |                                                                                      | 3.003          | 3.002          |                |       |
| Dia (mm)         |                                                                                      | 300            | 300            |                |       |
| Slope (1:X)      |                                                                                      | 18.1           | 200.0          |                |       |
| Cover Level (m)  | 4.050                                                                                | 4.050          | 4.150          | 4.350          | 4.500 |
| Invert Level (m) | 1.780                                                                                | 2.611<br>2.611 | 2.714<br>2.714 | 2.767<br>2.767 | 2.816 |
| Length (m)       |                                                                                      | 15.000         | 20.600         |                |       |

|                                                                       |                                               |                                                                                     |
|-----------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                |                                               | Page 3                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | Block A, M, J3 and K/L<br>SW Drainage Network |  |
| Date 13/07/2022 22:29<br>File 20220713-Block A, M J3 ...              | Designed by EAS<br>Checked by                 |                                                                                     |
| Innovyze                                                              | Network 2020.1.3                              |                                                                                     |

| MH Name          | MH20                                                                               |       | MH18   |        | MH17   | MH16  |
|------------------|------------------------------------------------------------------------------------|-------|--------|--------|--------|-------|
| Hor Scale 1000   |  |       |        |        |        |       |
| Ver Scale 200    |                                                                                    |       |        |        |        |       |
| Datum (m)-2.000  |                                                                                    |       |        |        |        |       |
| PN               |                                                                                    |       | 4.002  | 4.001  | 4.000  |       |
| Dia (mm)         |                                                                                    |       | 450    | 450    | 450    |       |
| Slope (1:X)      |                                                                                    |       | 301.4  | 300.0  | 300.0  |       |
| Cover Level (m)  | 4.050                                                                              | 4.050 | 4.050  | 3.525  | 3.525  |       |
| Invert Level (m) | 1.436                                                                              | 1.465 | 1.535  | 1.614  | 1.614  | 1.679 |
| Length (m)       |                                                                                    |       | 21.100 | 23.700 | 19.500 |       |

| MH Name          | MH35                                                                                 |        | MH21   |       | MH20 |
|------------------|--------------------------------------------------------------------------------------|--------|--------|-------|------|
| Hor Scale 1000   |  |        |        |       |      |
| Ver Scale 200    |                                                                                      |        |        |       |      |
| Datum (m)-2.000  |                                                                                      |        |        |       |      |
| PN               |                                                                                      |        | 4.005  | 4.004 |      |
| Dia (mm)         |                                                                                      |        | 450    | 450   |      |
| Slope (1:X)      |                                                                                      |        | 300.0  | 303.3 |      |
| Cover Level (m)  | 4.050                                                                                | 4.050  | 4.050  | 4.050 |      |
| Invert Level (m) |                                                                                      | 1.320  | 1.375  | 1.436 |      |
| Length (m)       |                                                                                      | 16.500 | 18.500 |       |      |

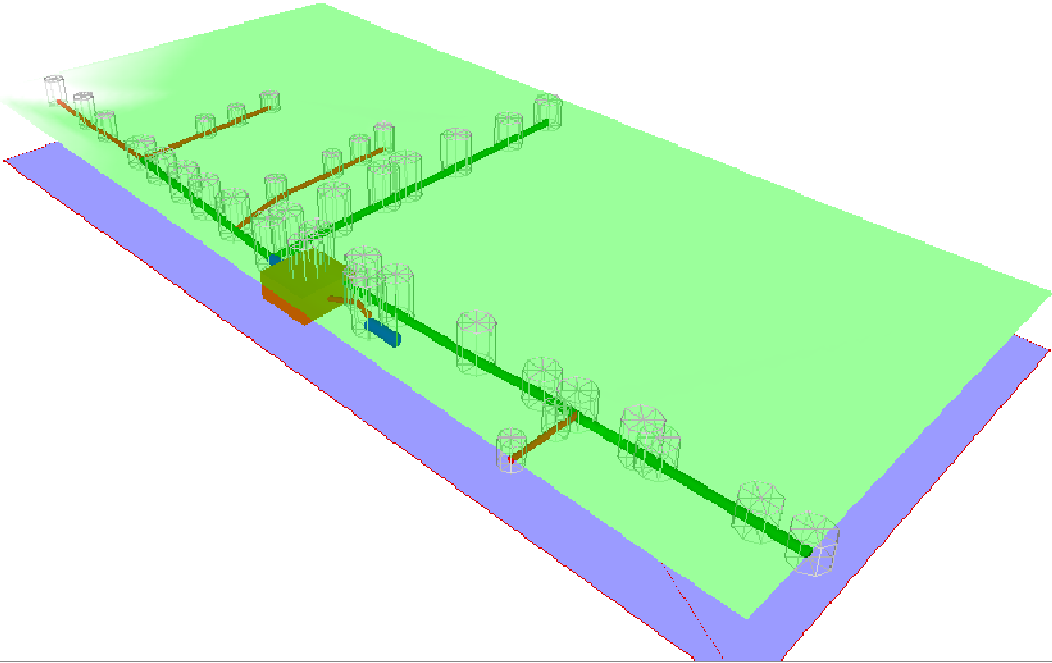
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|-----------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                |                                               | Page 4                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | Block A, M, J3 and K/L<br>SW Drainage Network |  |
| Date 13/07/2022 22:29<br>File 20220713-Block A, M J3 ...              | Designed by EAS<br>Checked by                 |                                                                                     |
| Innovyze                                                              | Network 2020.1.3                              |                                                                                     |

| MH Name          | MH30                                                                               | MH29   | MH25   | MH23   |       |
|------------------|------------------------------------------------------------------------------------|--------|--------|--------|-------|
| Hor Scale 1000   |  |        |        |        |       |
| Ver Scale 200    |                                                                                    |        |        |        |       |
| Datum (m)-2.000  |                                                                                    |        |        |        |       |
| PN               |                                                                                    | 5.005  | 5.003  | 5.001  |       |
| Dia (mm)         |                                                                                    | 450    | 450    | 450    |       |
| Slope (1:X)      |                                                                                    | 68.9   | 296.5  | 297.5  |       |
| Cover Level (m)  | 4.000                                                                              | 3.525  | 3.550  | 4.000  | 3.525 |
| Invert Level (m) | 1.557                                                                              | 1.853  | 1.880  | 1.944  | 2.037 |
| Length (m)       |                                                                                    | 20.400 | 16.900 | 23.500 |       |

| MH Name          | MH34                                                                                 | MH33   | MH32   | MH30   |       |
|------------------|--------------------------------------------------------------------------------------|--------|--------|--------|-------|
| Hor Scale 1000   |  |        |        |        |       |
| Ver Scale 200    |                                                                                      |        |        |        |       |
| Datum (m)-2.000  |                                                                                      |        |        |        |       |
| PN               |                                                                                      | 5.009  | 5.008  | 5.006  |       |
| Dia (mm)         |                                                                                      | 450    | 450    | 450    |       |
| Slope (1:X)      |                                                                                      | 300.0  | 301.6  | 300.0  |       |
| Cover Level (m)  | 4.050                                                                                | 4.050  | 4.050  | 4.050  | 4.000 |
| Invert Level (m) | 1.320                                                                                | 1.362  | 1.425  | 1.465  | 1.557 |
| Length (m)       |                                                                                      | 12.600 | 19.000 | 27.600 |       |

|                                                                       |                                               |                                                                                     |
|-----------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                |                                               | Page 5                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | Block A, M, J3 and K/L<br>SW Drainage Network |  |
| Date 13/07/2022 22:29<br>File 20220713-Block A, M J3 ...              | Designed by EAS<br>Checked by                 |                                                                                     |
| Innovyze                                                              | Network 2020.1.3                              |                                                                                     |

| MH Name          | MH28  |                | MH26   |  |
|------------------|-------|----------------|--------|--|
| Hor Scale 1000   |       | 5.003          |        |  |
| Ver Scale 200    |       |                |        |  |
| Datum (m)-2.000  |       |                |        |  |
| PN               |       |                | 6.000  |  |
| Dia (mm)         |       |                | 300    |  |
| Slope (1:X)      |       |                | 150.5  |  |
| Cover Level (m)  | 3.550 | 3.525          | 3.525  |  |
| Invert Level (m) |       | 2.084<br>2.084 | 2.177  |  |
| Length (m)       |       |                | 14.000 |  |

|                                                                                     |                  |                                                                                     |
|-------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                              |                  | Page 1                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG               |                  |  |
| Date 13/07/2022 20:26                                                               | Designed by EAS  |                                                                                     |
| File 20220713-Block A, M J3 KL - Surface Water...                                   | Checked by       |                                                                                     |
| Innovyze                                                                            | Network 2020.1.3 |                                                                                     |
|  |                  |                                                                                     |
| ©1982-2020 Innovyze                                                                 |                  |                                                                                     |

|                                                                       |                                               |                                                                                     |
|-----------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                |                                               | Page 1                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | Block A, M, J3 and K/L<br>SW Drainage Network |  |
| Date 13/07/2022 22:28<br>File 20220713-Block A, M J3 ...              | Designed by EAS<br>Checked by                 |                                                                                     |
| Innovyze                                                              | Network 2020.1.3                              |                                                                                     |

### Existing Network Details for Storm

\* - Indicates pipe has been modified outside of System 1

| PN      | Length<br>(m) | Fall<br>(m) | Slope<br>(1:X) | I.Area<br>(ha) | T.E.<br>(mins) | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) | Section Type |
|---------|---------------|-------------|----------------|----------------|----------------|-----------|-------------|-------------|--------------|
| * 1.000 | 19.300        | 0.309       | 62.5           | 0.046          | 3.00           | 0.600     | o           | 300         | Pipe/Conduit |
| * 1.001 | 12.500        | 0.063       | 198.4          | 0.045          | 0.00           | 0.600     | o           | 300         | Pipe/Conduit |
| * 1.002 | 20.000        | 0.100       | 200.0          | 0.045          | 0.00           | 0.600     | o           | 300         | Pipe/Conduit |
| * 2.000 | 13.200        | 0.066       | 200.0          | 0.045          | 3.00           | 0.600     | o           | 300         | Pipe/Conduit |
| * 2.001 | 11.700        | 0.061       | 191.8          | 0.045          | 0.00           | 0.600     | o           | 300         | Pipe/Conduit |
| * 2.002 | 23.200        | 0.116       | 200.0          | 0.045          | 0.00           | 0.600     | o           | 300         | Pipe/Conduit |
| * 1.003 | 10.800        | 0.216       | 50.0           | 0.045          | 0.00           | 0.600     | o           | 450         | Pipe/Conduit |
| * 1.004 | 12.400        | 0.248       | 50.0           | 0.046          | 0.00           | 0.600     | o           | 450         | Pipe/Conduit |
| * 1.005 | 10.600        | 0.212       | 50.0           | 0.045          | 0.00           | 0.600     | o           | 450         | Pipe/Conduit |
| * 1.006 | 13.600        | 0.272       | 50.0           | 0.045          | 0.00           | 0.600     | o           | 450         | Pipe/Conduit |
| * 3.000 | 9.800         | 0.049       | 200.0          | 0.045          | 3.00           | 0.600     | o           | 300         | Pipe/Conduit |
| * 3.001 | 10.600        | 0.053       | 200.0          | 0.046          | 0.00           | 0.600     | o           | 300         | Pipe/Conduit |
| * 3.002 | 20.600        | 0.103       | 200.0          | 0.044          | 0.00           | 0.600     | o           | 300         | Pipe/Conduit |
| * 3.003 | 15.000        | 0.831       | 18.1           | 0.046          | 0.00           | 0.600     | o           | 300         | Pipe/Conduit |
| * 1.007 | 16.500        | 0.330       | 50.0           | 0.045          | 0.00           | 0.600     | o           | 450         | Pipe/Conduit |

| PN      | US/MH<br>Name | US/CL<br>(m) | US/IL<br>(m) | US<br>C.Depth<br>(m) | DS/CL<br>(m) | DS/IL<br>(m) | DS<br>C.Depth<br>(m) | Ctrl | US/MH<br>(mm) |
|---------|---------------|--------------|--------------|----------------------|--------------|--------------|----------------------|------|---------------|
| * 1.000 | MH01          | 4.950        | 3.200        | 1.450                | 4.950        | 2.891        | 1.759                |      | 1200          |
| * 1.001 | MH02          | 4.950        | 2.891        | 1.759                | 4.500        | 2.828        | 1.372                |      | 1200          |
| * 1.002 | MH03          | 4.500        | 2.828        | 1.372                | 4.050        | 2.728        | 1.022                |      | 1200          |
| * 2.000 | MH04          | 4.050        | 2.971        | 0.779                | 4.050        | 2.905        | 0.845                |      | 1200          |
| * 2.001 | MH05          | 4.050        | 2.905        | 0.845                | 4.050        | 2.844        | 0.906                |      | 1200          |
| * 2.002 | MH06          | 4.050        | 2.844        | 0.906                | 4.050        | 2.728        | 1.022                |      | 1200          |
| * 1.003 | MH07          | 4.050        | 2.578        | 1.022                | 4.050        | 2.362        | 1.238                |      | 1800          |
| * 1.004 | MH08          | 4.050        | 2.362        | 1.238                | 4.050        | 2.114        | 1.486                |      | 1800          |
| * 1.005 | MH09          | 4.050        | 2.114        | 1.486                | 4.050        | 1.902        | 1.698                |      | 1800          |
| * 1.006 | MH10          | 4.050        | 1.902        | 1.698                | 4.050        | 1.630        | 1.970                |      | 1800          |
| * 3.000 | MH11          | 4.500        | 2.816        | 1.384                | 4.350        | 2.767        | 1.283                |      | 1200          |
| * 3.001 | MH12          | 4.350        | 2.767        | 1.283                | 4.150        | 2.714        | 1.136                |      | 1200          |
| * 3.002 | MH13          | 4.150        | 2.714        | 1.136                | 4.050        | 2.611        | 1.139                |      | 1200          |
| * 3.003 | MH14          | 4.050        | 2.611        | 1.139                | 4.050        | 1.780        | 1.970                |      | 1200          |
| * 1.007 | MH15          | 4.050        | 1.630        | 1.970                | 4.050        | 1.300        | 2.300                |      | 1800          |

| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |               |              |                |                      | Block A, M, J3 and K/L<br>SW Drainage Network |              |                      |             |               |  |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       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| Date 13/07/2022 22:28<br>File 20220713-Block A, M J3 ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| <div>Existing Network Details for Storm</div> <table><thead><tr><th>PN</th><th>Length<br/>(m)</th><th>Fall<br/>(m)</th><th>Slope<br/>(1:X)</th><th>I.Area<br/>(ha)</th><th>T.E.<br/>(mins)</th><th>k<br/>(mm)</th><th>HYD<br/>SECT</th><th>DIA<br/>(mm)</th><th>Section</th><th>Type</th></tr></thead><tbody><tr><td>* 4.000</td><td>19.500</td><td>0.065</td><td>300.0</td><td>0.045</td><td>3.00</td><td>0.600</td><td>o</td><td>450</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 4.001</td><td>23.700</td><td>0.079</td><td>300.0</td><td>0.043</td><td>0.00</td><td>0.600</td><td>o</td><td>450</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 4.002</td><td>21.100</td><td>0.070</td><td>301.4</td><td>0.043</td><td>0.00</td><td>0.600</td><td>o</td><td>450</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 4.003</td><td>8.700</td><td>0.029</td><td>300.0</td><td>0.043</td><td>0.00</td><td>0.600</td><td>o</td><td>450</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 4.004</td><td>18.500</td><td>0.061</td><td>303.3</td><td>0.043</td><td>0.00</td><td>0.600</td><td>o</td><td>450</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 4.005</td><td>16.500</td><td>0.055</td><td>300.0</td><td>0.043</td><td>0.00</td><td>0.600</td><td>o</td><td>450</td><td>Pipe/Conduit</td><td></td></tr><tr><td colspan="11"></td></tr><tr><td>* 5.000</td><td>11.300</td><td>0.038</td><td>297.4</td><td>0.042</td><td>3.00</td><td>0.600</td><td>o</td><td>450</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 5.001</td><td>23.500</td><td>0.079</td><td>297.5</td><td>0.040</td><td>0.00</td><td>0.600</td><td>o</td><td>450</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 5.002</td><td>4.200</td><td>0.014</td><td>300.0</td><td>0.040</td><td>0.00</td><td>0.600</td><td>o</td><td>450</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 5.003</td><td>16.900</td><td>0.057</td><td>296.5</td><td>0.043</td><td>0.00</td><td>0.600</td><td>o</td><td>450</td><td>Pipe/Conduit</td><td></td></tr><tr><td colspan="11"></td></tr><tr><td>* 6.000</td><td>14.000</td><td>0.093</td><td>150.5</td><td>0.043</td><td>3.00</td><td>0.600</td><td>o</td><td>300</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 6.001</td><td>7.100</td><td>0.047</td><td>151.1</td><td>0.042</td><td>0.00</td><td>0.600</td><td>o</td><td>300</td><td>Pipe/Conduit</td><td></td></tr><tr><td colspan="11"></td></tr><tr><td>* 5.004</td><td>10.000</td><td>0.027</td><td>370.4</td><td>0.040</td><td>0.00</td><td>0.600</td><td>o</td><td>450</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 5.005</td><td>20.400</td><td>0.296</td><td>68.9</td><td>0.040</td><td>0.00</td><td>0.600</td><td>o</td><td>450</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 5.006</td><td>27.600</td><td>0.092</td><td>300.0</td><td>0.040</td><td>0.00</td><td>0.600</td><td>o</td><td>450</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 5.007</td><td>12.000</td><td>0.040</td><td>300.0</td><td>0.040</td><td>0.00</td><td>0.600</td><td>o</td><td>450</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 5.008</td><td>19.000</td><td>0.063</td><td>301.6</td><td>0.040</td><td>0.00</td><td>0.600</td><td>o</td><td>450</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 5.009</td><td>12.600</td><td>0.042</td><td>300.0</td><td>0.043</td><td>0.00</td><td>0.600</td><td>o</td><td>450</td><td>Pipe/Conduit</td><td></td></tr></tbody></table><br><table><thead><tr><th>PN</th><th>US/MH<br/>Name</th><th>US/CL<br/>(m)</th><th>US/IL<br/>(m)</th><th>US<br/>C.Depth<br/>(m)</th><th>DS/CL<br/>(m)</th><th>DS/IL<br/>(m)</th><th>DS<br/>C.Depth<br/>(m)</th><th>Ctrl</th><th>US/MH<br/>(mm)</th></tr></thead><tbody><tr><td>* 4.000</td><td>MH16</td><td>3.525</td><td>1.679</td><td>1.396</td><td>3.525</td><td>1.614</td><td>1.461</td><td></td><td>1800</td></tr><tr><td>* 4.001</td><td>MH17</td><td>3.525</td><td>1.614</td><td>1.461</td><td>4.050</td><td>1.535</td><td>2.065</td><td></td><td>1800</td></tr><tr><td>* 4.002</td><td>MH18</td><td>4.050</td><td>1.535</td><td>2.065</td><td>4.050</td><td>1.465</td><td>2.135</td><td></td><td>1800</td></tr><tr><td>* 4.003</td><td>MH19</td><td>4.050</td><td>1.465</td><td>2.135</td><td>4.050</td><td>1.436</td><td>2.164</td><td></td><td>1800</td></tr><tr><td>* 4.004</td><td>MH20</td><td>4.050</td><td>1.436</td><td>2.164</td><td>4.050</td><td>1.375</td><td>2.225</td><td></td><td>1800</td></tr><tr><td>* 4.005</td><td>MH21</td><td>4.050</td><td>1.375</td><td>2.225</td><td>4.050</td><td>1.320</td><td>2.280</td><td></td><td>1800</td></tr><tr><td colspan="10"></td></tr><tr><td>* 5.000</td><td>MH22</td><td>3.525</td><td>2.075</td><td>1.000</td><td>3.525</td><td>2.037</td><td>1.038</td><td></td><td>1800</td></tr><tr><td>* 5.001</td><td>MH23</td><td>3.525</td><td>2.037</td><td>1.038</td><td>3.525</td><td>1.958</td><td>1.117</td><td></td><td>1800</td></tr><tr><td>* 5.002</td><td>MH24</td><td>3.525</td><td>1.958</td><td>1.117</td><td>4.000</td><td>1.944</td><td>1.606</td><td></td><td>1800</td></tr><tr><td>* 5.003</td><td>MH25</td><td>4.000</td><td>1.944</td><td>1.606</td><td>3.550</td><td>1.887</td><td>1.213</td><td></td><td>1800</td></tr><tr><td colspan="10"></td></tr><tr><td>* 6.000</td><td>MH26</td><td>3.525</td><td>2.177</td><td>1.048</td><td>3.525</td><td>2.084</td><td>1.141</td><td></td><td>1200</td></tr><tr><td>* 6.001</td><td>MH27</td><td>3.525</td><td>2.084</td><td>1.141</td><td>3.550</td><td>2.037</td><td>1.213</td><td></td><td>1200</td></tr><tr><td colspan="10"></td></tr><tr><td>* 5.004</td><td>MH28</td><td>3.550</td><td>1.880</td><td>1.220</td><td>3.525</td><td>1.853</td><td>1.222</td><td></td><td>1800</td></tr><tr><td>* 5.005</td><td>MH29</td><td>3.525</td><td>1.853</td><td>1.222</td><td>4.000</td><td>1.557</td><td>1.993</td><td></td><td>1800</td></tr><tr><td>* 5.006</td><td>MH30</td><td>4.000</td><td>1.557</td><td>1.993</td><td>4.050</td><td>1.465</td><td>2.135</td><td></td><td>1800</td></tr><tr><td>* 5.007</td><td>MH31</td><td>4.050</td><td>1.465</td><td>2.135</td><td>4.050</td><td>1.425</td><td>2.175</td><td></td><td>1800</td></tr><tr><td>* 5.008</td><td>MH32</td><td>4.050</td><td>1.425</td><td>2.175</td><td>4.050</td><td>1.362</td><td>2.238</td><td></td><td>1800</td></tr><tr><td>* 5.009</td><td>MH33</td><td>4.050</td><td>1.362</td><td>2.238</td><td>4.050</td><td>1.320</td><td>2.280</td><td></td><td>1800</td></tr></tbody></table> |               |              |                |                      |                                               |              |                      |             |               |                                                                                     |  | PN | Length<br>(m) | Fall<br>(m) | Slope<br>(1:X) | I.Area<br>(ha) | T.E.<br>(mins) | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) | Section | Type | * 4.000 | 19.500 | 0.065 | 300.0 | 0.045 | 3.00 | 0.600 | o | 450 | Pipe/Conduit |  | * 4.001 | 23.700 | 0.079 | 300.0 | 0.043 | 0.00 | 0.600 | o | 450 | Pipe/Conduit |  | * 4.002 | 21.100 | 0.070 | 301.4 | 0.043 | 0.00 | 0.600 | o | 450 | Pipe/Conduit |  | * 4.003 | 8.700 | 0.029 | 300.0 | 0.043 | 0.00 | 0.600 | o | 450 | Pipe/Conduit |  | * 4.004 | 18.500 | 0.061 | 303.3 | 0.043 | 0.00 | 0.600 | o | 450 | Pipe/Conduit |  | * 4.005 | 16.500 | 0.055 | 300.0 | 0.043 | 0.00 | 0.600 | o | 450 | Pipe/Conduit |  |  |  |  |  |  |  |  |  |  |  |  | * 5.000 | 11.300 | 0.038 | 297.4 | 0.042 | 3.00 | 0.600 | o | 450 | Pipe/Conduit |  | * 5.001 | 23.500 | 0.079 | 297.5 | 0.040 | 0.00 | 0.600 | o | 450 | Pipe/Conduit |  | * 5.002 | 4.200 | 0.014 | 300.0 | 0.040 | 0.00 | 0.600 | o | 450 | Pipe/Conduit |  | * 5.003 | 16.900 | 0.057 | 296.5 | 0.043 | 0.00 | 0.600 | o | 450 | Pipe/Conduit |  |  |  |  |  |  |  |  |  |  |  |  | * 6.000 | 14.000 | 0.093 | 150.5 | 0.043 | 3.00 | 0.600 | o | 300 | Pipe/Conduit |  | * 6.001 | 7.100 | 0.047 | 151.1 | 0.042 | 0.00 | 0.600 | o | 300 | Pipe/Conduit |  |  |  |  |  |  |  |  |  |  |  |  | * 5.004 | 10.000 | 0.027 | 370.4 | 0.040 | 0.00 | 0.600 | o | 450 | Pipe/Conduit |  | * 5.005 | 20.400 | 0.296 | 68.9 | 0.040 | 0.00 | 0.600 | o | 450 | Pipe/Conduit |  | * 5.006 | 27.600 | 0.092 | 300.0 | 0.040 | 0.00 | 0.600 | o | 450 | Pipe/Conduit |  | * 5.007 | 12.000 | 0.040 | 300.0 | 0.040 | 0.00 | 0.600 | o | 450 | Pipe/Conduit |  | * 5.008 | 19.000 | 0.063 | 301.6 | 0.040 | 0.00 | 0.600 | o | 450 | Pipe/Conduit |  | * 5.009 | 12.600 | 0.042 | 300.0 | 0.043 | 0.00 | 0.600 | o | 450 | Pipe/Conduit |  | PN | US/MH<br>Name | US/CL<br>(m) | US/IL<br>(m) | US<br>C.Depth<br>(m) | DS/CL<br>(m) | DS/IL<br>(m) | DS<br>C.Depth<br>(m) | Ctrl | US/MH<br>(mm) | * 4.000 | MH16 | 3.525 | 1.679 | 1.396 | 3.525 | 1.614 | 1.461 |  | 1800 | * 4.001 | MH17 | 3.525 | 1.614 | 1.461 | 4.050 | 1.535 | 2.065 |  | 1800 | * 4.002 | MH18 | 4.050 | 1.535 | 2.065 | 4.050 | 1.465 | 2.135 |  | 1800 | * 4.003 | MH19 | 4.050 | 1.465 | 2.135 | 4.050 | 1.436 | 2.164 |  | 1800 | * 4.004 | MH20 | 4.050 | 1.436 | 2.164 | 4.050 | 1.375 | 2.225 |  | 1800 | * 4.005 | MH21 | 4.050 | 1.375 | 2.225 | 4.050 | 1.320 | 2.280 |  | 1800 |  |  |  |  |  |  |  |  |  |  | * 5.000 | MH22 | 3.525 | 2.075 | 1.000 | 3.525 | 2.037 | 1.038 |  | 1800 | * 5.001 | MH23 | 3.525 | 2.037 | 1.038 | 3.525 | 1.958 | 1.117 |  | 1800 | * 5.002 | MH24 | 3.525 | 1.958 | 1.117 | 4.000 | 1.944 | 1.606 |  | 1800 | * 5.003 | MH25 | 4.000 | 1.944 | 1.606 | 3.550 | 1.887 | 1.213 |  | 1800 |  |  |  |  |  |  |  |  |  |  | * 6.000 | MH26 | 3.525 | 2.177 | 1.048 | 3.525 | 2.084 | 1.141 |  | 1200 | * 6.001 | MH27 | 3.525 | 2.084 | 1.141 | 3.550 | 2.037 | 1.213 |  | 1200 |  |  |  |  |  |  |  |  |  |  | * 5.004 | MH28 | 3.550 | 1.880 | 1.220 | 3.525 | 1.853 | 1.222 |  | 1800 | * 5.005 | MH29 | 3.525 | 1.853 | 1.222 | 4.000 | 1.557 | 1.993 |  | 1800 | * 5.006 | MH30 | 4.000 | 1.557 | 1.993 | 4.050 | 1.465 | 2.135 |  | 1800 | * 5.007 | MH31 | 4.050 | 1.465 | 2.135 | 4.050 | 1.425 | 2.175 |  | 1800 | * 5.008 | MH32 | 4.050 | 1.425 | 2.175 | 4.050 | 1.362 | 2.238 |  | 1800 | * 5.009 | MH33 | 4.050 | 1.362 | 2.238 | 4.050 | 1.320 | 2.280 |  | 1800 |
| PN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Length<br>(m) | Fall<br>(m)  | Slope<br>(1:X) | I.Area<br>(ha)       | T.E.<br>(mins)                                | k<br>(mm)    | HYD<br>SECT          | DIA<br>(mm) | Section       | Type                                                                                |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |  |  |  |  |  |  |  |  |  |  |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |  |  |  |  |  |  |  |  |  |  |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |  |  |  |  |  |  |  |  |  |  |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |  |  |  |  |  |  |  |  |  |  |         |      |       |       |       |    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| * 4.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 19.500        | 0.065        | 300.0          | 0.045                | 3.00                                          | 0.600        | o                    | 450         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 4.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 23.700        | 0.079        | 300.0          | 0.043                | 0.00                                          | 0.600        | o                    | 450         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 4.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 21.100        | 0.070        | 301.4          | 0.043                | 0.00                                          | 0.600        | o                    | 450         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 4.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8.700         | 0.029        | 300.0          | 0.043                | 0.00                                          | 0.600        | o                    | 450         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 4.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 18.500        | 0.061        | 303.3          | 0.043                | 0.00                                          | 0.600        | o                    | 450         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 4.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 16.500        | 0.055        | 300.0          | 0.043                | 0.00                                          | 0.600        | o                    | 450         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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                                                                                                                                                                                                                                                                        | 11.300        | 0.038        | 297.4          | 0.042                | 3.00                                          | 0.600        | o                    | 450         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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                                                                                                                                                                                                                                                                        | 23.500        | 0.079        | 297.5          | 0.040                | 0.00                                          | 0.600        | o                    | 450         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 5.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4.200         | 0.014        | 300.0          | 0.040                | 0.00                                          | 0.600        | o                    | 450         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 5.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 16.900        | 0.057        | 296.5          | 0.043                | 0.00                                          | 0.600        | o                    | 450         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 6.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 14.000        | 0.093        | 150.5          | 0.043                | 3.00                                          | 0.600        | o                    | 300         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 6.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7.100         | 0.047        | 151.1          | 0.042                | 0.00                                          | 0.600        | o                    | 300         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 5.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10.000        | 0.027        | 370.4          | 0.040                | 0.00                                          | 0.600        | o                    | 450         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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                                                                                                                                                                                                                                                                        | 20.400        | 0.296        | 68.9           | 0.040                | 0.00                                          | 0.600        | o                    | 450         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 5.006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 27.600        | 0.092        | 300.0          | 0.040                | 0.00                                          | 0.600        | o                    | 450         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 5.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 12.000        | 0.040        | 300.0          | 0.040                | 0.00                                          | 0.600        | o                    | 450         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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                                                                                                                                                                                                                                                                        | 19.000        | 0.063        | 301.6          | 0.040                | 0.00                                          | 0.600        | o                    | 450         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 5.009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 12.600        | 0.042        | 300.0          | 0.043                | 0.00                                          | 0.600        | o                    | 450         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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                                                                                                                                                                                                                                                                        | MH16          | 3.525        | 1.679          | 1.396                | 3.525                                         | 1.614        | 1.461                |             | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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                                                                                                                                                                                                                                                                        | MH17          | 3.525        | 1.614          | 1.461                | 4.050                                         | 1.535        | 2.065                |             | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 4.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MH18          | 4.050        | 1.535          | 2.065                | 4.050                                         | 1.465        | 2.135                |             | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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                                                                                                                                                                                                                                                                        | MH19          | 4.050        | 1.465          | 2.135                | 4.050                                         | 1.436        | 2.164                |             | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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                                                                                                                                                                                                                                                                        | MH20          | 4.050        | 1.436          | 2.164                | 4.050                                         | 1.375        | 2.225                |             | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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                                                                                                                                                                                                                                                                        | MH21          | 4.050        | 1.375          | 2.225                | 4.050                                         | 1.320        | 2.280                |             | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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                                                                                                                                                                                                                                                                        | MH22          | 3.525        | 2.075          | 1.000                | 3.525                                         | 2.037        | 1.038                |             | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 5.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MH23          | 3.525        | 2.037          | 1.038                | 3.525                                         | 1.958        | 1.117                |             | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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                                                                                                                                                                                                                                                                        | MH24          | 3.525        | 1.958          | 1.117                | 4.000                                         | 1.944        | 1.606                |             | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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                                                                                                                                                                                                                                                                        | MH25          | 4.000        | 1.944          | 1.606                | 3.550                                         | 1.887        | 1.213                |             | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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                                                                                                                                                                                                                                                                        | MH26          | 3.525        | 2.177          | 1.048                | 3.525                                         | 2.084        | 1.141                |             | 1200          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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                                                                                                                                                                                                                                                                        | MH27          | 3.525        | 2.084          | 1.141                | 3.550                                         | 2.037        | 1.213                |             | 1200          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 5.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MH28          | 3.550        | 1.880          | 1.220                | 3.525                                         | 1.853        | 1.222                |             | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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                                                                                                                                                                                                                                                                        | MH29          | 3.525        | 1.853          | 1.222                | 4.000                                         | 1.557        | 1.993                |             | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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                                                                                                                                                                                                                                                                        | MH30          | 4.000        | 1.557          | 1.993                | 4.050                                         | 1.465        | 2.135                |             | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 5.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MH31          | 4.050        | 1.465          | 2.135                | 4.050                                         | 1.425        | 2.175                |             | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 5.008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | MH32          | 4.050        | 1.425          | 2.175                | 4.050                                         | 1.362        | 2.238                |             | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |  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| * 5.009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| ©1982-2020 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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 |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |  |  |  |  |  |  |  |  |  |  |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |  |  |  |  |  |  |  |  |  |  |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |  |  |  |  |  |  |  |  |  |  |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |  |  |  |  |  |  |  |  |  |  |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |  |  |  |  |  |  |  |  |  |  |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |  |  |  |  |  |  |  |  |  |  |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |

| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |              |                |                      |                                               |              |                      |             |               | Page 3                                                                              |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |        |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |              |       |       |       |       |       |       |      |      |         |      |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
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| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |              |                |                      | Block A, M, J3 and K/L<br>SW Drainage Network |              |                      |             |               |  |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |        |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |              |       |       |       |       |       |       |      |      |         |      |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| Date 13/07/2022 22:28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               |              |                |                      | Designed by EAS                               |              |                      |             |               |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |        |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |              |       |       |       |       |       |       |      |      |         |      |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| File 20220713-Block A, M J3 ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |              |                |                      | Checked by                                    |              |                      |             |               |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |        |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |              |       |       |       |       |       |       |      |      |         |      |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               |              |                |                      | Network 2020.1.3                              |              |                      |             |               |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |        |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |              |       |       |       |       |       |       |      |      |         |      |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| <p style="text-align: center;"><u>Existing Network Details for Storm</u></p> <table><tr><th>PN</th><th>Length<br/>(m)</th><th>Fall<br/>(m)</th><th>Slope<br/>(1:X)</th><th>I.Area<br/>(ha)</th><th>T.E.<br/>(mins)</th><th>k<br/>(mm)</th><th>HYD<br/>SECT</th><th>DIA<br/>(mm)</th><th>Section</th><th>Type</th></tr><tr><td>* 4.006</td><td>6.000</td><td>0.020</td><td>300.0</td><td>0.044</td><td>0.00</td><td>0.600</td><td>o</td><td>450</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 1.008</td><td>15.700</td><td>0.032</td><td>490.6</td><td>0.000</td><td>0.00</td><td>0.600</td><td>o</td><td>600</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 1.009</td><td>20.000</td><td>-1.552</td><td>-12.9</td><td>0.000</td><td>0.00</td><td>0.600</td><td>o</td><td>325</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 1.010</td><td>4.400</td><td>0.420</td><td>10.5</td><td>0.000</td><td>0.00</td><td>0.600</td><td>o</td><td>325</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 1.011</td><td>10.000</td><td>0.020</td><td>500.0</td><td>0.000</td><td>0.00</td><td>0.600</td><td>o</td><td>675</td><td>Pipe/Conduit</td><td></td></tr></table><br><table><tr><th>PN</th><th>US/MH<br/>Name</th><th>US/CL<br/>(m)</th><th>US/IL<br/>(m)</th><th>US<br/>C.Depth<br/>(m)</th><th>DS/CL<br/>(m)</th><th>DS/IL<br/>(m)</th><th>DS<br/>C.Depth<br/>(m)</th><th>Ctrl</th><th>US/MH<br/>(mm)</th></tr><tr><td>* 4.006</td><td>MH34</td><td>4.050</td><td>1.320</td><td>2.280</td><td>4.050</td><td>1.300</td><td>2.300</td><td></td><td>1800</td></tr><tr><td>* 1.008</td><td>MH35</td><td>4.050</td><td>1.150</td><td>2.300</td><td>4.050</td><td>1.118</td><td>2.332</td><td></td><td>1800</td></tr><tr><td>* 1.009</td><td>PUMP AND GEO</td><td>4.050</td><td>0.458</td><td>3.267</td><td>4.050</td><td>2.010</td><td>1.715</td><td>Pump</td><td>1800</td></tr><tr><td>* 1.010</td><td>MH36</td><td>4.050</td><td>2.010</td><td>1.715</td><td>4.050</td><td>1.590</td><td>2.135</td><td></td><td>1200</td></tr><tr><td>* 1.011</td><td>SW-A-07</td><td>4.050</td><td>0.984</td><td>2.391</td><td>4.050</td><td>0.964</td><td>2.411</td><td></td><td>1800</td></tr></table> |               |              |                |                      |                                               |              |                      |             |               |                                                                                     |  | PN | Length<br>(m) | Fall<br>(m) | Slope<br>(1:X) | I.Area<br>(ha) | T.E.<br>(mins) | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) | Section | Type | * 4.006 | 6.000 | 0.020 | 300.0 | 0.044 | 0.00 | 0.600 | o | 450 | Pipe/Conduit |  | * 1.008 | 15.700 | 0.032 | 490.6 | 0.000 | 0.00 | 0.600 | o | 600 | Pipe/Conduit |  | * 1.009 | 20.000 | -1.552 | -12.9 | 0.000 | 0.00 | 0.600 | o | 325 | Pipe/Conduit |  | * 1.010 | 4.400 | 0.420 | 10.5 | 0.000 | 0.00 | 0.600 | o | 325 | Pipe/Conduit |  | * 1.011 | 10.000 | 0.020 | 500.0 | 0.000 | 0.00 | 0.600 | o | 675 | Pipe/Conduit |  | PN | US/MH<br>Name | US/CL<br>(m) | US/IL<br>(m) | US<br>C.Depth<br>(m) | DS/CL<br>(m) | DS/IL<br>(m) | DS<br>C.Depth<br>(m) | Ctrl | US/MH<br>(mm) | * 4.006 | MH34 | 4.050 | 1.320 | 2.280 | 4.050 | 1.300 | 2.300 |  | 1800 | * 1.008 | MH35 | 4.050 | 1.150 | 2.300 | 4.050 | 1.118 | 2.332 |  | 1800 | * 1.009 | PUMP AND GEO | 4.050 | 0.458 | 3.267 | 4.050 | 2.010 | 1.715 | Pump | 1800 | * 1.010 | MH36 | 4.050 | 2.010 | 1.715 | 4.050 | 1.590 | 2.135 |  | 1200 | * 1.011 | SW-A-07 | 4.050 | 0.984 | 2.391 | 4.050 | 0.964 | 2.411 |  | 1800 |
| PN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Length<br>(m) | Fall<br>(m)  | Slope<br>(1:X) | I.Area<br>(ha)       | T.E.<br>(mins)                                | k<br>(mm)    | HYD<br>SECT          | DIA<br>(mm) | Section       | Type                                                                                |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |        |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |              |       |       |       |       |       |       |      |      |         |      |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| * 4.006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6.000         | 0.020        | 300.0          | 0.044                | 0.00                                          | 0.600        | o                    | 450         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |        |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |              |       |       |       |       |       |       |      |      |         |      |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| * 1.008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 15.700        | 0.032        | 490.6          | 0.000                | 0.00                                          | 0.600        | o                    | 600         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |        |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |              |       |       |       |       |       |       |      |      |         |      |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| * 1.009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20.000        | -1.552       | -12.9          | 0.000                | 0.00                                          | 0.600        | o                    | 325         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |        |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |              |       |       |       |       |       |       |      |      |         |      |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| * 1.010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 4.400         | 0.420        | 10.5           | 0.000                | 0.00                                          | 0.600        | o                    | 325         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |        |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |              |       |       |       |       |       |       |      |      |         |      |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| * 1.011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10.000        | 0.020        | 500.0          | 0.000                | 0.00                                          | 0.600        | o                    | 675         | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |        |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |              |       |       |       |       |       |       |      |      |         |      |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| PN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | US/MH<br>Name | US/CL<br>(m) | US/IL<br>(m)   | US<br>C.Depth<br>(m) | DS/CL<br>(m)                                  | DS/IL<br>(m) | DS<br>C.Depth<br>(m) | Ctrl        | US/MH<br>(mm) |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |        |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |              |       |       |       |       |       |       |      |      |         |      |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| * 4.006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MH34          | 4.050        | 1.320          | 2.280                | 4.050                                         | 1.300        | 2.300                |             | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |        |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |              |       |       |       |       |       |       |      |      |         |      |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| * 1.008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MH35          | 4.050        | 1.150          | 2.300                | 4.050                                         | 1.118        | 2.332                |             | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |        |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |              |       |       |       |       |       |       |      |      |         |      |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| * 1.009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PUMP AND GEO  | 4.050        | 0.458          | 3.267                | 4.050                                         | 2.010        | 1.715                | Pump        | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |        |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |              |       |       |       |       |       |       |      |      |         |      |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| * 1.010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MH36          | 4.050        | 2.010          | 1.715                | 4.050                                         | 1.590        | 2.135                |             | 1200          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |        |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |              |       |       |       |       |       |       |      |      |         |      |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| * 1.011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SW-A-07       | 4.050        | 0.984          | 2.391                | 4.050                                         | 0.964        | 2.411                |             | 1800          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |       |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |        |        |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |      |       |       |       |       |       |       |  |      |         |      |       |       |       |       |       |       |  |      |         |              |       |       |       |       |       |       |      |      |         |      |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
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|                                                                       |                                               |                                                                                     |
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| EAS Transport Planning                                                |                                               | Page 4                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | Block A, M, J3 and K/L<br>SW Drainage Network |  |
| Date 13/07/2022 22:28<br>File 20220713-Block A, M J3 ...              | Designed by EAS<br>Checked by                 |                                                                                     |
| Innovyze                                                              | Network 2020.1.3                              |                                                                                     |

Manhole Schedules for Storm

| MH Name | MH CL (m) | MH Depth (m) | MH Connection | MH Diam., L*W (mm) | PN    | Pipe Out Invert Level (m) | Pipe Out Diameter (mm) | PN    | Pipes In Invert Level (m) | Pipes In Diameter (mm) | Backdrop (mm) |
|---------|-----------|--------------|---------------|--------------------|-------|---------------------------|------------------------|-------|---------------------------|------------------------|---------------|
| MH01    | 4.950     | 1.750        | Open Manhole  | 1200               | 1.000 | 3.200                     | 300                    |       |                           |                        |               |
| MH02    | 4.950     | 2.059        | Open Manhole  | 1200               | 1.001 | 2.891                     | 300                    | 1.000 | 2.891                     | 300                    |               |
| MH03    | 4.500     | 1.672        | Open Manhole  | 1200               | 1.002 | 2.828                     | 300                    | 1.001 | 2.828                     | 300                    |               |
| MH04    | 4.050     | 1.079        | Open Manhole  | 1200               | 2.000 | 2.971                     | 300                    |       |                           |                        |               |
| MH05    | 4.050     | 1.145        | Open Manhole  | 1200               | 2.001 | 2.905                     | 300                    | 2.000 | 2.905                     | 300                    |               |
| MH06    | 4.050     | 1.206        | Open Manhole  | 1200               | 2.002 | 2.844                     | 300                    | 2.001 | 2.844                     | 300                    |               |
| MH07    | 4.050     | 1.472        | Open Manhole  | 1800               | 1.003 | 2.578                     | 450                    | 1.002 | 2.728                     | 300                    |               |
|         |           |              |               |                    |       |                           |                        | 2.002 | 2.728                     | 300                    |               |
| MH08    | 4.050     | 1.688        | Open Manhole  | 1800               | 1.004 | 2.362                     | 450                    | 1.003 | 2.362                     | 450                    |               |
| MH09    | 4.050     | 1.936        | Open Manhole  | 1800               | 1.005 | 2.114                     | 450                    | 1.004 | 2.114                     | 450                    |               |
| MH10    | 4.050     | 2.148        | Open Manhole  | 1800               | 1.006 | 1.902                     | 450                    | 1.005 | 1.902                     | 450                    |               |
| MH11    | 4.500     | 1.684        | Open Manhole  | 1200               | 3.000 | 2.816                     | 300                    |       |                           |                        |               |
| MH12    | 4.350     | 1.583        | Open Manhole  | 1200               | 3.001 | 2.767                     | 300                    | 3.000 | 2.767                     | 300                    |               |
| MH13    | 4.150     | 1.436        | Open Manhole  | 1200               | 3.002 | 2.714                     | 300                    | 3.001 | 2.714                     | 300                    |               |
| MH14    | 4.050     | 1.439        | Open Manhole  | 1200               | 3.003 | 2.611                     | 300                    | 3.002 | 2.611                     | 300                    |               |
| MH15    | 4.050     | 2.420        | Open Manhole  | 1800               | 1.007 | 1.630                     | 450                    | 1.006 | 1.630                     | 450                    |               |
|         |           |              |               |                    |       |                           |                        | 3.003 | 1.780                     | 300                    |               |
| MH16    | 3.525     | 1.846        | Open Manhole  | 1800               | 4.000 | 1.679                     | 450                    |       |                           |                        |               |
| MH17    | 3.525     | 1.911        | Open Manhole  | 1800               | 4.001 | 1.614                     | 450                    | 4.000 | 1.614                     | 450                    |               |
| MH18    | 4.050     | 2.515        | Open Manhole  | 1800               | 4.002 | 1.535                     | 450                    | 4.001 | 1.535                     | 450                    |               |
| MH19    | 4.050     | 2.585        | Open Manhole  | 1800               | 4.003 | 1.465                     | 450                    | 4.002 | 1.465                     | 450                    |               |
| MH20    | 4.050     | 2.614        | Open Manhole  | 1800               | 4.004 | 1.436                     | 450                    | 4.003 | 1.436                     | 450                    |               |
| MH21    | 4.050     | 2.675        | Open Manhole  | 1800               | 4.005 | 1.375                     | 450                    | 4.004 | 1.375                     | 450                    |               |
| MH22    | 3.525     | 1.450        | Open Manhole  | 1800               | 5.000 | 2.075                     | 450                    |       |                           |                        |               |
| MH23    | 3.525     | 1.488        | Open Manhole  | 1800               | 5.001 | 2.037                     | 450                    | 5.000 | 2.037                     | 450                    |               |
| MH24    | 3.525     | 1.567        | Open Manhole  | 1800               | 5.002 | 1.958                     | 450                    | 5.001 | 1.958                     | 450                    |               |
| MH25    | 4.000     | 2.056        | Open Manhole  | 1800               | 5.003 | 1.944                     | 450                    | 5.002 | 1.944                     | 450                    |               |
| MH26    | 3.525     | 1.348        | Open Manhole  | 1200               | 6.000 | 2.177                     | 300                    |       |                           |                        |               |
| MH27    | 3.525     | 1.441        | Open Manhole  | 1200               | 6.001 | 2.084                     | 300                    | 6.000 | 2.084                     | 300                    |               |
| MH28    | 3.550     | 1.670        | Open Manhole  | 1800               | 5.004 | 1.880                     | 450                    | 5.003 | 1.887                     | 450                    | 7             |
|         |           |              |               |                    |       |                           |                        | 6.001 | 2.037                     | 300                    | 7             |
| MH29    | 3.525     | 1.672        | Open Manhole  | 1800               | 5.005 | 1.853                     | 450                    | 5.004 | 1.853                     | 450                    |               |
| MH30    | 4.000     | 2.443        | Open Manhole  | 1800               | 5.006 | 1.557                     | 450                    | 5.005 | 1.557                     | 450                    |               |
| MH31    | 4.050     | 2.585        | Open Manhole  | 1800               | 5.007 | 1.465                     | 450                    | 5.006 | 1.465                     | 450                    |               |
| MH32    | 4.050     | 2.625        | Open Manhole  | 1800               | 5.008 | 1.425                     | 450                    | 5.007 | 1.425                     | 450                    |               |
| MH33    | 4.050     | 2.688        | Open Manhole  | 1800               | 5.009 | 1.362                     | 450                    | 5.008 | 1.362                     | 450                    |               |
| MH34    | 4.050     | 2.730        | Open Manhole  | 1800               | 4.006 | 1.320                     | 450                    | 4.005 | 1.320                     | 450                    |               |
|         |           |              |               |                    |       |                           |                        | 5.009 | 1.320                     | 450                    |               |



|                                                                       |                                               |                                                                                     |
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| EAS Transport Planning                                                |                                               | Page 6                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | Block A, M, J3 and K/L<br>SW Drainage Network |  |
| Date 13/07/2022 22:28<br>File 20220713-Block A, M J3 ...              | Designed by EAS<br>Checked by                 |                                                                                     |
| Innovyze                                                              | Network 2020.1.3                              |                                                                                     |

### PIPELINE SCHEDULES for Storm

#### Upstream Manhole

| PN    | Hyd Sect | Diam (mm) | MH Name | C.Level (m) | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., L*W (mm) |
|-------|----------|-----------|---------|-------------|-------------|-------------|---------------|--------------------|
| 1.000 | o        | 300       | MH01    | 4.950       | 3.200       | 1.450       | Open Manhole  | 1200               |
| 1.001 | o        | 300       | MH02    | 4.950       | 2.891       | 1.759       | Open Manhole  | 1200               |
| 1.002 | o        | 300       | MH03    | 4.500       | 2.828       | 1.372       | Open Manhole  | 1200               |
| 2.000 | o        | 300       | MH04    | 4.050       | 2.971       | 0.779       | Open Manhole  | 1200               |
| 2.001 | o        | 300       | MH05    | 4.050       | 2.905       | 0.845       | Open Manhole  | 1200               |
| 2.002 | o        | 300       | MH06    | 4.050       | 2.844       | 0.906       | Open Manhole  | 1200               |
| 1.003 | o        | 450       | MH07    | 4.050       | 2.578       | 1.022       | Open Manhole  | 1800               |
| 1.004 | o        | 450       | MH08    | 4.050       | 2.362       | 1.238       | Open Manhole  | 1800               |
| 1.005 | o        | 450       | MH09    | 4.050       | 2.114       | 1.486       | Open Manhole  | 1800               |
| 1.006 | o        | 450       | MH10    | 4.050       | 1.902       | 1.698       | Open Manhole  | 1800               |
| 3.000 | o        | 300       | MH11    | 4.500       | 2.816       | 1.384       | Open Manhole  | 1200               |
| 3.001 | o        | 300       | MH12    | 4.350       | 2.767       | 1.283       | Open Manhole  | 1200               |
| 3.002 | o        | 300       | MH13    | 4.150       | 2.714       | 1.136       | Open Manhole  | 1200               |
| 3.003 | o        | 300       | MH14    | 4.050       | 2.611       | 1.139       | Open Manhole  | 1200               |
| 1.007 | o        | 450       | MH15    | 4.050       | 1.630       | 1.970       | Open Manhole  | 1800               |
| 4.000 | o        | 450       | MH16    | 3.525       | 1.679       | 1.396       | Open Manhole  | 1800               |

#### Downstream Manhole

| PN    | Length (m) | Slope (1:X) | MH Name | C.Level (m) | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., L*W (mm) |
|-------|------------|-------------|---------|-------------|-------------|-------------|---------------|--------------------|
| 1.000 | 19.300     | 62.5        | MH02    | 4.950       | 2.891       | 1.759       | Open Manhole  | 1200               |
| 1.001 | 12.500     | 198.4       | MH03    | 4.500       | 2.828       | 1.372       | Open Manhole  | 1200               |
| 1.002 | 20.000     | 200.0       | MH07    | 4.050       | 2.728       | 1.022       | Open Manhole  | 1800               |
| 2.000 | 13.200     | 200.0       | MH05    | 4.050       | 2.905       | 0.845       | Open Manhole  | 1200               |
| 2.001 | 11.700     | 191.8       | MH06    | 4.050       | 2.844       | 0.906       | Open Manhole  | 1200               |
| 2.002 | 23.200     | 200.0       | MH07    | 4.050       | 2.728       | 1.022       | Open Manhole  | 1800               |
| 1.003 | 10.800     | 50.0        | MH08    | 4.050       | 2.362       | 1.238       | Open Manhole  | 1800               |
| 1.004 | 12.400     | 50.0        | MH09    | 4.050       | 2.114       | 1.486       | Open Manhole  | 1800               |
| 1.005 | 10.600     | 50.0        | MH10    | 4.050       | 1.902       | 1.698       | Open Manhole  | 1800               |
| 1.006 | 13.600     | 50.0        | MH15    | 4.050       | 1.630       | 1.970       | Open Manhole  | 1800               |
| 3.000 | 9.800      | 200.0       | MH12    | 4.350       | 2.767       | 1.283       | Open Manhole  | 1200               |
| 3.001 | 10.600     | 200.0       | MH13    | 4.150       | 2.714       | 1.136       | Open Manhole  | 1200               |
| 3.002 | 20.600     | 200.0       | MH14    | 4.050       | 2.611       | 1.139       | Open Manhole  | 1200               |
| 3.003 | 15.000     | 18.1        | MH15    | 4.050       | 1.780       | 1.970       | Open Manhole  | 1800               |
| 1.007 | 16.500     | 50.0        | MH35    | 4.050       | 1.300       | 2.300       | Open Manhole  | 1800               |
| 4.000 | 19.500     | 300.0       | MH17    | 3.525       | 1.614       | 1.461       | Open Manhole  | 1800               |

|                                                                       |                                               |                                                                                     |
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| EAS Transport Planning                                                |                                               | Page 7                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | Block A, M, J3 and K/L<br>SW Drainage Network |  |
| Date 13/07/2022 22:28<br>File 20220713-Block A, M J3 ...              | Designed by EAS<br>Checked by                 |                                                                                     |
| Innovyze                                                              | Network 2020.1.3                              |                                                                                     |

# PIPELINE SCHEDULES for Storm

## Upstream Manhole

| PN    | Hyd Sect | Diam (mm) | MH Name | C.Level (m) | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., L*W (mm) |
|-------|----------|-----------|---------|-------------|-------------|-------------|---------------|--------------------|
| 4.001 | o        | 450       | MH17    | 3.525       | 1.614       | 1.461       | Open Manhole  | 1800               |
| 4.002 | o        | 450       | MH18    | 4.050       | 1.535       | 2.065       | Open Manhole  | 1800               |
| 4.003 | o        | 450       | MH19    | 4.050       | 1.465       | 2.135       | Open Manhole  | 1800               |
| 4.004 | o        | 450       | MH20    | 4.050       | 1.436       | 2.164       | Open Manhole  | 1800               |
| 4.005 | o        | 450       | MH21    | 4.050       | 1.375       | 2.225       | Open Manhole  | 1800               |
| 5.000 | o        | 450       | MH22    | 3.525       | 2.075       | 1.000       | Open Manhole  | 1800               |
| 5.001 | o        | 450       | MH23    | 3.525       | 2.037       | 1.038       | Open Manhole  | 1800               |
| 5.002 | o        | 450       | MH24    | 3.525       | 1.958       | 1.117       | Open Manhole  | 1800               |
| 5.003 | o        | 450       | MH25    | 4.000       | 1.944       | 1.606       | Open Manhole  | 1800               |
| 6.000 | o        | 300       | MH26    | 3.525       | 2.177       | 1.048       | Open Manhole  | 1200               |
| 6.001 | o        | 300       | MH27    | 3.525       | 2.084       | 1.141       | Open Manhole  | 1200               |
| 5.004 | o        | 450       | MH28    | 3.550       | 1.880       | 1.220       | Open Manhole  | 1800               |
| 5.005 | o        | 450       | MH29    | 3.525       | 1.853       | 1.222       | Open Manhole  | 1800               |
| 5.006 | o        | 450       | MH30    | 4.000       | 1.557       | 1.993       | Open Manhole  | 1800               |
| 5.007 | o        | 450       | MH31    | 4.050       | 1.465       | 2.135       | Open Manhole  | 1800               |
| 5.008 | o        | 450       | MH32    | 4.050       | 1.425       | 2.175       | Open Manhole  | 1800               |
| 5.009 | o        | 450       | MH33    | 4.050       | 1.362       | 2.238       | Open Manhole  | 1800               |

## Downstream Manhole

| PN    | Length (m) | Slope (1:X) | MH Name | C.Level (m) | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., L*W (mm) |
|-------|------------|-------------|---------|-------------|-------------|-------------|---------------|--------------------|
| 4.001 | 23.700     | 300.0       | MH18    | 4.050       | 1.535       | 2.065       | Open Manhole  | 1800               |
| 4.002 | 21.100     | 301.4       | MH19    | 4.050       | 1.465       | 2.135       | Open Manhole  | 1800               |
| 4.003 | 8.700      | 300.0       | MH20    | 4.050       | 1.436       | 2.164       | Open Manhole  | 1800               |
| 4.004 | 18.500     | 303.3       | MH21    | 4.050       | 1.375       | 2.225       | Open Manhole  | 1800               |
| 4.005 | 16.500     | 300.0       | MH34    | 4.050       | 1.320       | 2.280       | Open Manhole  | 1800               |
| 5.000 | 11.300     | 297.4       | MH23    | 3.525       | 2.037       | 1.038       | Open Manhole  | 1800               |
| 5.001 | 23.500     | 297.5       | MH24    | 3.525       | 1.958       | 1.117       | Open Manhole  | 1800               |
| 5.002 | 4.200      | 300.0       | MH25    | 4.000       | 1.944       | 1.606       | Open Manhole  | 1800               |
| 5.003 | 16.900     | 296.5       | MH28    | 3.550       | 1.887       | 1.213       | Open Manhole  | 1800               |
| 6.000 | 14.000     | 150.5       | MH27    | 3.525       | 2.084       | 1.141       | Open Manhole  | 1200               |
| 6.001 | 7.100      | 151.1       | MH28    | 3.550       | 2.037       | 1.213       | Open Manhole  | 1800               |
| 5.004 | 10.000     | 370.4       | MH29    | 3.525       | 1.853       | 1.222       | Open Manhole  | 1800               |
| 5.005 | 20.400     | 68.9        | MH30    | 4.000       | 1.557       | 1.993       | Open Manhole  | 1800               |
| 5.006 | 27.600     | 300.0       | MH31    | 4.050       | 1.465       | 2.135       | Open Manhole  | 1800               |
| 5.007 | 12.000     | 300.0       | MH32    | 4.050       | 1.425       | 2.175       | Open Manhole  | 1800               |
| 5.008 | 19.000     | 301.6       | MH33    | 4.050       | 1.362       | 2.238       | Open Manhole  | 1800               |
| 5.009 | 12.600     | 300.0       | MH34    | 4.050       | 1.320       | 2.280       | Open Manhole  | 1800               |

|                                                                       |                                               |                                                                                     |
|-----------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                |                                               | Page 8                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | Block A, M, J3 and K/L<br>SW Drainage Network |  |
| Date 13/07/2022 22:28<br>File 20220713-Block A, M J3 ...              | Designed by EAS<br>Checked by                 |                                                                                     |
| Innovyze                                                              | Network 2020.1.3                              |                                                                                     |

### PIPELINE SCHEDULES for Storm

#### Upstream Manhole

| PN    | Hyd<br>Sect | Diam<br>(mm) | MH<br>Name   | C.Level<br>(m) | I.Level<br>(m) | D.Depth<br>(m) | MH<br>Connection | MH DIAM., L*W<br>(mm) |
|-------|-------------|--------------|--------------|----------------|----------------|----------------|------------------|-----------------------|
| 4.006 | o           | 450          | MH34         | 4.050          | 1.320          | 2.280          | Open Manhole     | 1800                  |
| 1.008 | o           | 600          | MH35         | 4.050          | 1.150          | 2.300          | Open Manhole     | 1800                  |
| 1.009 | o           | 325          | PUMP AND GEO | 4.050          | 0.458          | 3.267          | Open Manhole     | 1800                  |
| 1.010 | o           | 325          | MH36         | 4.050          | 2.010          | 1.715          | Open Manhole     | 1200                  |
| 1.011 | o           | 675          | SW-A-07      | 4.050          | 0.984          | 2.391          | Open Manhole     | 1800                  |

#### Downstream Manhole

| PN    | Length<br>(m) | Slope<br>(1:X) | MH<br>Name   | C.Level<br>(m) | I.Level<br>(m) | D.Depth<br>(m) | MH<br>Connection | MH DIAM., L*W<br>(mm) |
|-------|---------------|----------------|--------------|----------------|----------------|----------------|------------------|-----------------------|
| 4.006 | 6.000         | 300.0          | MH35         | 4.050          | 1.300          | 2.300          | Open Manhole     | 1800                  |
| 1.008 | 15.700        | 490.6          | PUMP AND GEO | 4.050          | 1.118          | 2.332          | Open Manhole     | 1800                  |
| 1.009 | 20.000        | -12.9          | MH36         | 4.050          | 2.010          | 1.715          | Open Manhole     | 1200                  |
| 1.010 | 4.400         | 10.5           | SW-A-07      | 4.050          | 1.590          | 2.135          | Open Manhole     | 1800                  |
| 1.011 | 10.000        | 500.0          |              | 4.050          | 0.964          | 2.411          | Open Manhole     | 0                     |

### Surcharged Outfall Details for Storm

| Outfall<br>Pipe Number | Outfall<br>Name | C. Level<br>(m) | I. Level<br>(m) | Min<br>I. Level<br>(m) | D,L<br>(mm) | W<br>(mm) |
|------------------------|-----------------|-----------------|-----------------|------------------------|-------------|-----------|
|------------------------|-----------------|-----------------|-----------------|------------------------|-------------|-----------|

1.011                      4.050              0.964              0.000              0              0

Datum (m) 0.984 Offset (mins) 0

| Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) |
|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|
| 1              | 0.675        | 15             | 0.675        | 29             | 0.675        | 43             | 0.675        | 57             | 0.675        | 71             | 0.675        |
| 2              | 0.675        | 16             | 0.675        | 30             | 0.675        | 44             | 0.675        | 58             | 0.675        | 72             | 0.675        |
| 3              | 0.675        | 17             | 0.675        | 31             | 0.675        | 45             | 0.675        | 59             | 0.675        | 73             | 0.675        |
| 4              | 0.675        | 18             | 0.675        | 32             | 0.675        | 46             | 0.675        | 60             | 0.675        | 74             | 0.675        |
| 5              | 0.675        | 19             | 0.675        | 33             | 0.675        | 47             | 0.675        | 61             | 0.675        | 75             | 0.675        |
| 6              | 0.675        | 20             | 0.675        | 34             | 0.675        | 48             | 0.675        | 62             | 0.675        | 76             | 0.675        |
| 7              | 0.675        | 21             | 0.675        | 35             | 0.675        | 49             | 0.675        | 63             | 0.675        | 77             | 0.675        |
| 8              | 0.675        | 22             | 0.675        | 36             | 0.675        | 50             | 0.675        | 64             | 0.675        | 78             | 0.675        |
| 9              | 0.675        | 23             | 0.675        | 37             | 0.675        | 51             | 0.675        | 65             | 0.675        | 79             | 0.675        |
| 10             | 0.675        | 24             | 0.675        | 38             | 0.675        | 52             | 0.675        | 66             | 0.675        | 80             | 0.675        |
| 11             | 0.675        | 25             | 0.675        | 39             | 0.675        | 53             | 0.675        | 67             | 0.675        | 81             | 0.675        |
| 12             | 0.675        | 26             | 0.675        | 40             | 0.675        | 54             | 0.675        | 68             | 0.675        | 82             | 0.675        |
| 13             | 0.675        | 27             | 0.675        | 41             | 0.675        | 55             | 0.675        | 69             | 0.675        | 83             | 0.675        |
| 14             | 0.675        | 28             | 0.675        | 42             | 0.675        | 56             | 0.675        | 70             | 0.675        | 84             | 0.675        |

| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                |              |                | Block A, M, J3 and K/L<br>SW Drainage Network |                |              |                |              |  |              |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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| Date 13/07/2022 22:28<br>File 20220713-Block A, M J3 ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| <p style="text-align: center;"><u>Surcharged Outfall Details for Storm</u></p> <table border="1"> <thead> <tr> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> </tr> </thead> <tbody> <tr><td>85</td><td>0.675</td><td>135</td><td>0.675</td><td>185</td><td>0.675</td><td>235</td><td>0.675</td><td>285</td><td>0.675</td><td>335</td><td>0.675</td></tr> <tr><td>86</td><td>0.675</td><td>136</td><td>0.675</td><td>186</td><td>0.675</td><td>236</td><td>0.675</td><td>286</td><td>0.675</td><td>336</td><td>0.675</td></tr> <tr><td>87</td><td>0.675</td><td>137</td><td>0.675</td><td>187</td><td>0.675</td><td>237</td><td>0.675</td><td>287</td><td>0.675</td><td>337</td><td>0.675</td></tr> <tr><td>88</td><td>0.675</td><td>138</td><td>0.675</td><td>188</td><td>0.675</td><td>238</td><td>0.675</td><td>288</td><td>0.675</td><td>338</td><td>0.675</td></tr> <tr><td>89</td><td>0.675</td><td>139</td><td>0.675</td><td>189</td><td>0.675</td><td>239</td><td>0.675</td><td>289</td><td>0.675</td><td>339</td><td>0.675</td></tr> <tr><td>90</td><td>0.675</td><td>140</td><td>0.675</td><td>190</td><td>0.675</td><td>240</td><td>0.675</td><td>290</td><td>0.675</td><td>340</td><td>0.675</td></tr> <tr><td>91</td><td>0.675</td><td>141</td><td>0.675</td><td>191</td><td>0.675</td><td>241</td><td>0.675</td><td>291</td><td>0.675</td><td>341</td><td>0.675</td></tr> <tr><td>92</td><td>0.675</td><td>142</td><td>0.675</td><td>192</td><td>0.675</td><td>242</td><td>0.675</td><td>292</td><td>0.675</td><td>342</td><td>0.675</td></tr> <tr><td>93</td><td>0.675</td><td>143</td><td>0.675</td><td>193</td><td>0.675</td><td>243</td><td>0.675</td><td>293</td><td>0.675</td><td>343</td><td>0.675</td></tr> <tr><td>94</td><td>0.675</td><td>144</td><td>0.675</td><td>194</td><td>0.675</td><td>244</td><td>0.675</td><td>294</td><td>0.675</td><td>344</td><td>0.675</td></tr> <tr><td>95</td><td>0.675</td><td>145</td><td>0.675</td><td>195</td><td>0.675</td><td>245</td><td>0.675</td><td>295</td><td>0.675</td><td>345</td><td>0.675</td></tr> <tr><td>96</td><td>0.675</td><td>146</td><td>0.675</td><td>196</td><td>0.675</td><td>246</td><td>0.675</td><td>296</td><td>0.675</td><td>346</td><td>0.675</td></tr> <tr><td>97</td><td>0.675</td><td>147</td><td>0.675</td><td>197</td><td>0.675</td><td>247</td><td>0.675</td><td>297</td><td>0.675</td><td>347</td><td>0.675</td></tr> <tr><td>98</td><td>0.675</td><td>148</td><td>0.675</td><td>198</td><td>0.675</td><td>248</td><td>0.675</td><td>298</td><td>0.675</td><td>348</td><td>0.675</td></tr> <tr><td>99</td><td>0.675</td><td>149</td><td>0.675</td><td>199</td><td>0.675</td><td>249</td><td>0.675</td><td>299</td><td>0.675</td><td>349</td><td>0.675</td></tr> <tr><td>100</td><td>0.675</td><td>150</td><td>0.675</td><td>200</td><td>0.675</td><td>250</td><td>0.675</td><td>300</td><td>0.675</td><td>350</td><td>0.675</td></tr> <tr><td>101</td><td>0.675</td><td>151</td><td>0.675</td><td>201</td><td>0.675</td><td>251</td><td>0.675</td><td>301</td><td>0.675</td><td>351</td><td>0.675</td></tr> <tr><td>102</td><td>0.675</td><td>152</td><td>0.675</td><td>202</td><td>0.675</td><td>252</td><td>0.675</td><td>302</td><td>0.675</td><td>352</td><td>0.675</td></tr> <tr><td>103</td><td>0.675</td><td>153</td><td>0.675</td><td>203</td><td>0.675</td><td>253</td><td>0.675</td><td>303</td><td>0.675</td><td>353</td><td>0.675</td></tr> <tr><td>104</td><td>0.675</td><td>154</td><td>0.675</td><td>204</td><td>0.675</td><td>254</td><td>0.675</td><td>304</td><td>0.675</td><td>354</td><td>0.675</td></tr> <tr><td>105</td><td>0.675</td><td>155</td><td>0.675</td><td>205</td><td>0.675</td><td>255</td><td>0.675</td><td>305</td><td>0.675</td><td>355</td><td>0.675</td></tr> <tr><td>106</td><td>0.675</td><td>156</td><td>0.675</td><td>206</td><td>0.675</td><td>256</td><td>0.675</td><td>306</td><td>0.675</td><td>356</td><td>0.675</td></tr> <tr><td>107</td><td>0.675</td><td>157</td><td>0.675</td><td>207</td><td>0.675</td><td>257</td><td>0.675</td><td>307</td><td>0.675</td><td>357</td><td>0.675</td></tr> <tr><td>108</td><td>0.675</td><td>158</td><td>0.675</td><td>208</td><td>0.675</td><td>258</td><td>0.675</td><td>308</td><td>0.675</td><td>358</td><td>0.675</td></tr> <tr><td>109</td><td>0.675</td><td>159</td><td>0.675</td><td>209</td><td>0.675</td><td>259</td><td>0.675</td><td>309</td><td>0.675</td><td>359</td><td>0.675</td></tr> <tr><td>110</td><td>0.675</td><td>160</td><td>0.675</td><td>210</td><td>0.675</td><td>260</td><td>0.675</td><td>310</td><td>0.675</td><td>360</td><td>0.675</td></tr> <tr><td>111</td><td>0.675</td><td>161</td><td>0.675</td><td>211</td><td>0.675</td><td>261</td><td>0.675</td><td>311</td><td>0.675</td><td>361</td><td>0.675</td></tr> <tr><td>112</td><td>0.675</td><td>162</td><td>0.675</td><td>212</td><td>0.675</td><td>262</td><td>0.675</td><td>312</td><td>0.675</td><td>362</td><td>0.675</td></tr> <tr><td>113</td><td>0.675</td><td>163</td><td>0.675</td><td>213</td><td>0.675</td><td>263</td><td>0.675</td><td>313</td><td>0.675</td><td>363</td><td>0.675</td></tr> <tr><td>114</td><td>0.675</td><td>164</td><td>0.675</td><td>214</td><td>0.675</td><td>264</td><td>0.675</td><td>314</td><td>0.675</td><td>364</td><td>0.675</td></tr> <tr><td>115</td><td>0.675</td><td>165</td><td>0.675</td><td>215</td><td>0.675</td><td>265</td><td>0.675</td><td>315</td><td>0.675</td><td>365</td><td>0.675</td></tr> <tr><td>116</td><td>0.675</td><td>166</td><td>0.675</td><td>216</td><td>0.675</td><td>266</td><td>0.675</td><td>316</td><td>0.675</td><td>366</td><td>0.675</td></tr> <tr><td>117</td><td>0.675</td><td>167</td><td>0.675</td><td>217</td><td></td></tr></tbody></table> |              |                |              |                |                                               |                |              |                |              |                                                                                     |              | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | 85 | 0.675 | 135 | 0.675 | 185 | 0.675 | 235 | 0.675 | 285 | 0.675 | 335 | 0.675 | 86 | 0.675 | 136 | 0.675 | 186 | 0.675 | 236 | 0.675 | 286 | 0.675 | 336 | 0.675 | 87 | 0.675 | 137 | 0.675 | 187 | 0.675 | 237 | 0.675 | 287 | 0.675 | 337 | 0.675 | 88 | 0.675 | 138 | 0.675 | 188 | 0.675 | 238 | 0.675 | 288 | 0.675 | 338 | 0.675 | 89 | 0.675 | 139 | 0.675 | 189 | 0.675 | 239 | 0.675 | 289 | 0.675 | 339 | 0.675 | 90 | 0.675 | 140 | 0.675 | 190 | 0.675 | 240 | 0.675 | 290 | 0.675 | 340 | 0.675 | 91 | 0.675 | 141 | 0.675 | 191 | 0.675 | 241 | 0.675 | 291 | 0.675 | 341 | 0.675 | 92 | 0.675 | 142 | 0.675 | 192 | 0.675 | 242 | 0.675 | 292 | 0.675 | 342 | 0.675 | 93 | 0.675 | 143 | 0.675 | 193 | 0.675 | 243 | 0.675 | 293 | 0.675 | 343 | 0.675 | 94 | 0.675 | 144 | 0.675 | 194 | 0.675 | 244 | 0.675 | 294 | 0.675 | 344 | 0.675 | 95 | 0.675 | 145 | 0.675 | 195 | 0.675 | 245 | 0.675 | 295 | 0.675 | 345 | 0.675 | 96 | 0.675 | 146 | 0.675 | 196 | 0.675 | 246 | 0.675 | 296 | 0.675 | 346 | 0.675 | 97 | 0.675 | 147 | 0.675 | 197 | 0.675 | 247 | 0.675 | 297 | 0.675 | 347 | 0.675 | 98 | 0.675 | 148 | 0.675 | 198 | 0.675 | 248 | 0.675 | 298 | 0.675 | 348 | 0.675 | 99 | 0.675 | 149 | 0.675 | 199 | 0.675 | 249 | 0.675 | 299 | 0.675 | 349 | 0.675 | 100 | 0.675 | 150 | 0.675 | 200 | 0.675 | 250 | 0.675 | 300 | 0.675 | 350 | 0.675 | 101 | 0.675 | 151 | 0.675 | 201 | 0.675 | 251 | 0.675 | 301 | 0.675 | 351 | 0.675 | 102 | 0.675 | 152 | 0.675 | 202 | 0.675 | 252 | 0.675 | 302 | 0.675 | 352 | 0.675 | 103 | 0.675 | 153 | 0.675 | 203 | 0.675 | 253 | 0.675 | 303 | 0.675 | 353 | 0.675 | 104 | 0.675 | 154 | 0.675 | 204 | 0.675 | 254 | 0.675 | 304 | 0.675 | 354 | 0.675 | 105 | 0.675 | 155 | 0.675 | 205 | 0.675 | 255 | 0.675 | 305 | 0.675 | 355 | 0.675 | 106 | 0.675 | 156 | 0.675 | 206 | 0.675 | 256 | 0.675 | 306 | 0.675 | 356 | 0.675 | 107 | 0.675 | 157 | 0.675 | 207 | 0.675 | 257 | 0.675 | 307 | 0.675 | 357 | 0.675 | 108 | 0.675 | 158 | 0.675 | 208 | 0.675 | 258 | 0.675 | 308 | 0.675 | 358 | 0.675 | 109 | 0.675 | 159 | 0.675 | 209 | 0.675 | 259 | 0.675 | 309 | 0.675 | 359 | 0.675 | 110 | 0.675 | 160 | 0.675 | 210 | 0.675 | 260 | 0.675 | 310 | 0.675 | 360 | 0.675 | 111 | 0.675 | 161 | 0.675 | 211 | 0.675 | 261 | 0.675 | 311 | 0.675 | 361 | 0.675 | 112 | 0.675 | 162 | 0.675 | 212 | 0.675 | 262 | 0.675 | 312 | 0.675 | 362 | 0.675 | 113 | 0.675 | 163 | 0.675 | 213 | 0.675 | 263 | 0.675 | 313 | 0.675 | 363 | 0.675 | 114 | 0.675 | 164 | 0.675 | 214 | 0.675 | 264 | 0.675 | 314 | 0.675 | 364 | 0.675 | 115 | 0.675 | 165 | 0.675 | 215 | 0.675 | 265 | 0.675 | 315 | 0.675 | 365 | 0.675 | 116 | 0.675 | 166 | 0.675 | 216 | 0.675 | 266 | 0.675 | 316 | 0.675 | 366 | 0.675 | 117 | 0.675 | 167 | 0.675 | 217 |  |
| Time<br>(mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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Time<br>(mins)                                                                      | Depth<br>(m) |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |    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| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.675        | 135            | 0.675        | 185            | 0.675                                         | 235            | 0.675        | 285            | 0.675        | 335                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.675        | 136            | 0.675        | 186            | 0.675                                         | 236            | 0.675        | 286            | 0.675        | 336                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.675        | 137            | 0.675        | 187            | 0.675                                         | 237            | 0.675        | 287            | 0.675        | 337                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.675        | 138            | 0.675        | 188            | 0.675                                         | 238            | 0.675        | 288            | 0.675        | 338                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.675        | 139            | 0.675        | 189            | 0.675                                         | 239            | 0.675        | 289            | 0.675        | 339                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.675        | 140            | 0.675        | 190            | 0.675                                         | 240            | 0.675        | 290            | 0.675        | 340                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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| 91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.675        | 141            | 0.675        | 191            | 0.675                                         | 241            | 0.675        | 291            | 0.675        | 341                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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| 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.675        | 142            | 0.675        | 192            | 0.675                                         | 242            | 0.675        | 292            | 0.675        | 342                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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| 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.675        | 143            | 0.675        | 193            | 0.675                                         | 243            | 0.675        | 293            | 0.675        | 343                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.675        | 144            | 0.675        | 194            | 0.675                                         | 244            | 0.675        | 294            | 0.675        | 344                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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| 95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.675        | 145            | 0.675        | 195            | 0.675                                         | 245            | 0.675        | 295            | 0.675        | 345                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.675        | 146            | 0.675        | 196            | 0.675                                         | 246            | 0.675        | 296            | 0.675        | 346                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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| 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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                                                                            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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| 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.675        | 150            | 0.675        | 200            | 0.675                                         | 250            | 0.675        | 300            | 0.675        | 350                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.675        | 151            | 0.675        | 201            | 0.675                                         | 251            | 0.675        | 301            | 0.675        | 351                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.675        | 153            | 0.675        | 203            | 0.675                                         | 253            | 0.675        | 303            | 0.675        | 353                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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| 107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.675        | 164            | 0.675        | 214            | 0.675                                         | 264            | 0.675        | 314            | 0.675        | 364                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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| 115                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.675        | 165            | 0.675        | 215            | 0.675                                         | 265            | 0.675        | 315            | 0.675        | 365                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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| 116                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.675        | 166            | 0.675        | 216            | 0.675                                         | 266            | 0.675        | 316            | 0.675        | 366                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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| 117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.675        | 167            | 0.675        | 217            |                                               |                |              |                |              |                                                                                     |              |                |              |                |              |                |              |                |              |                |              |                |              |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |       |     |       |     |       |    |       |     |       |     |       |     |      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|                                                                       |                            |                              |                            |                              |                                               |                              |                            |                              |                            |                                                                                     |                            |
|-----------------------------------------------------------------------|----------------------------|------------------------------|----------------------------|------------------------------|-----------------------------------------------|------------------------------|----------------------------|------------------------------|----------------------------|-------------------------------------------------------------------------------------|----------------------------|
| EAS Transport Planning                                                |                            |                              |                            |                              |                                               |                              |                            |                              |                            | Page 10                                                                             |                            |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |                            |                              |                            |                              | Block A, M, J3 and K/L<br>SW Drainage Network |                              |                            |                              |                            |  |                            |
| Date 13/07/2022 22:28<br>File 20220713-Block A, M J3 ...              |                            |                              |                            |                              | Designed by EAS<br>Checked by                 |                              |                            |                              |                            |                                                                                     |                            |
| Innovyze                                                              |                            |                              |                            |                              | Network 2020.1.3                              |                              |                            |                              |                            |                                                                                     |                            |
| <u>Surcharged Outfall Details for Storm</u>                           |                            |                              |                            |                              |                                               |                              |                            |                              |                            |                                                                                     |                            |
| <b>Time</b><br><b>(mins)</b>                                          | <b>Depth</b><br><b>(m)</b> | <b>Time</b><br><b>(mins)</b> | <b>Depth</b><br><b>(m)</b> | <b>Time</b><br><b>(mins)</b> | <b>Depth</b><br><b>(m)</b>                    | <b>Time</b><br><b>(mins)</b> | <b>Depth</b><br><b>(m)</b> | <b>Time</b><br><b>(mins)</b> | <b>Depth</b><br><b>(m)</b> | <b>Time</b><br><b>(mins)</b>                                                        | <b>Depth</b><br><b>(m)</b> |
| 385                                                                   | 0.675                      | 435                          | 0.675                      | 485                          | 0.675                                         | 535                          | 0.675                      | 585                          | 0.675                      | 635                                                                                 | 0.675                      |
| 386                                                                   | 0.675                      | 436                          | 0.675                      | 486                          | 0.675                                         | 536                          | 0.675                      | 586                          | 0.675                      | 636                                                                                 | 0.675                      |
| 387                                                                   | 0.675                      | 437                          | 0.675                      | 487                          | 0.675                                         | 537                          | 0.675                      | 587                          | 0.675                      | 637                                                                                 | 0.675                      |
| 388                                                                   | 0.675                      | 438                          | 0.675                      | 488                          | 0.675                                         | 538                          | 0.675                      | 588                          | 0.675                      | 638                                                                                 | 0.675                      |
| 389                                                                   | 0.675                      | 439                          | 0.675                      | 489                          | 0.675                                         | 539                          | 0.675                      | 589                          | 0.675                      | 639                                                                                 | 0.675                      |
| 390                                                                   | 0.675                      | 440                          | 0.675                      | 490                          | 0.675                                         | 540                          | 0.675                      | 590                          | 0.675                      | 640                                                                                 | 0.675                      |
| 391                                                                   | 0.675                      | 441                          | 0.675                      | 491                          | 0.675                                         | 541                          | 0.675                      | 591                          | 0.675                      | 641                                                                                 | 0.675                      |
| 392                                                                   | 0.675                      | 442                          | 0.675                      | 492                          | 0.675                                         | 542                          | 0.675                      | 592                          | 0.675                      | 642                                                                                 | 0.675                      |
| 393                                                                   | 0.675                      | 443                          | 0.675                      | 493                          | 0.675                                         | 543                          | 0.675                      | 593                          | 0.675                      | 643                                                                                 | 0.675                      |
| 394                                                                   | 0.675                      | 444                          | 0.675                      | 494                          | 0.675                                         | 544                          | 0.675                      | 594                          | 0.675                      | 644                                                                                 | 0.675                      |
| 395                                                                   | 0.675                      | 445                          | 0.675                      | 495                          | 0.675                                         | 545                          | 0.675                      | 595                          | 0.675                      | 645                                                                                 | 0.675                      |
| 396                                                                   | 0.675                      | 446                          | 0.675                      | 496                          | 0.675                                         | 546                          | 0.675                      | 596                          | 0.675                      | 646                                                                                 | 0.675                      |
| 397                                                                   | 0.675                      | 447                          | 0.675                      | 497                          | 0.675                                         | 547                          | 0.675                      | 597                          | 0.675                      | 647                                                                                 | 0.675                      |
| 398                                                                   | 0.675                      | 448                          | 0.675                      | 498                          | 0.675                                         | 548                          | 0.675                      | 598                          | 0.675                      | 648                                                                                 | 0.675                      |
| 399                                                                   | 0.675                      | 449                          | 0.675                      | 499                          | 0.675                                         | 549                          | 0.675                      | 599                          | 0.675                      | 649                                                                                 | 0.675                      |
| 400                                                                   | 0.675                      | 450                          | 0.675                      | 500                          | 0.675                                         | 550                          | 0.675                      | 600                          | 0.675                      | 650                                                                                 | 0.675                      |
| 401                                                                   | 0.675                      | 451                          | 0.675                      | 501                          | 0.675                                         | 551                          | 0.675                      | 601                          | 0.675                      | 651                                                                                 | 0.675                      |
| 402                                                                   | 0.675                      | 452                          | 0.675                      | 502                          | 0.675                                         | 552                          | 0.675                      | 602                          | 0.675                      | 652                                                                                 | 0.675                      |
| 403                                                                   | 0.675                      | 453                          | 0.675                      | 503                          | 0.675                                         | 553                          | 0.675                      | 603                          | 0.675                      | 653                                                                                 | 0.675                      |
| 404                                                                   | 0.675                      | 454                          | 0.675                      | 504                          | 0.675                                         | 554                          | 0.675                      | 604                          | 0.675                      | 654                                                                                 | 0.675                      |
| 405                                                                   | 0.675                      | 455                          | 0.675                      | 505                          | 0.675                                         | 555                          | 0.675                      | 605                          | 0.675                      | 655                                                                                 | 0.675                      |
| 406                                                                   | 0.675                      | 456                          | 0.675                      | 506                          | 0.675                                         | 556                          | 0.675                      | 606                          | 0.675                      | 656                                                                                 | 0.675                      |
| 407                                                                   | 0.675                      | 457                          | 0.675                      | 507                          | 0.675                                         | 557                          | 0.675                      | 607                          | 0.675                      | 657                                                                                 | 0.675                      |
| 408                                                                   | 0.675                      | 458                          | 0.675                      | 508                          | 0.675                                         | 558                          | 0.675                      | 608                          | 0.675                      | 658                                                                                 | 0.675                      |
| 409                                                                   | 0.675                      | 459                          | 0.675                      | 509                          | 0.675                                         | 559                          | 0.675                      | 609                          | 0.675                      | 659                                                                                 | 0.675                      |
| 410                                                                   | 0.675                      | 460                          | 0.675                      | 510                          | 0.675                                         | 560                          | 0.675                      | 610                          | 0.675                      | 660                                                                                 | 0.675                      |
| 411                                                                   | 0.675                      | 461                          | 0.675                      | 511                          | 0.675                                         | 561                          | 0.675                      | 611                          | 0.675                      | 661                                                                                 | 0.675                      |
| 412                                                                   | 0.675                      | 462                          | 0.675                      | 512                          | 0.675                                         | 562                          | 0.675                      | 612                          | 0.675                      | 662                                                                                 | 0.675                      |
| 413                                                                   | 0.675                      | 463                          | 0.675                      | 513                          | 0.675                                         | 563                          | 0.675                      | 613                          | 0.675                      | 663                                                                                 | 0.675                      |
| 414                                                                   | 0.675                      | 464                          | 0.675                      | 514                          | 0.675                                         | 564                          | 0.675                      | 614                          | 0.675                      | 664                                                                                 | 0.675                      |
| 415                                                                   | 0.675                      | 465                          | 0.675                      | 515                          | 0.675                                         | 565                          | 0.675                      | 615                          | 0.675                      | 665                                                                                 | 0.675                      |
| 416                                                                   | 0.675                      | 466                          | 0.675                      | 516                          | 0.675                                         | 566                          |                            |                              |                            |                                                                                     |                            |

| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                       |              | Page 11        |              |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |                |              | Block A, M, J3 and K/L<br>SW Drainage Network |              |                |              |  |              |                |              |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| Date 13/07/2022 22:28<br>File 20220713-Block A, M J3 ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                       |              |                |              |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                       |              |                |              |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| <p align="center"><u>Surcharged Outfall Details for Storm</u></p> <table border="1"> <thead> <tr> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> </tr> </thead> <tbody> <tr><td>685</td><td>0.675</td><td>735</td><td>0.675</td><td>785</td><td>0.675</td><td>835</td><td>0.675</td><td>885</td><td>0.675</td><td>935</td><td>0.675</td></tr> <tr><td>686</td><td>0.675</td><td>736</td><td>0.675</td><td>786</td><td>0.675</td><td>836</td><td>0.675</td><td>886</td><td>0.675</td><td>936</td><td>0.675</td></tr> <tr><td>687</td><td>0.675</td><td>737</td><td>0.675</td><td>787</td><td>0.675</td><td>837</td><td>0.675</td><td>887</td><td>0.675</td><td>937</td><td>0.675</td></tr> <tr><td>688</td><td>0.675</td><td>738</td><td>0.675</td><td>788</td><td>0.675</td><td>838</td><td>0.675</td><td>888</td><td>0.675</td><td>938</td><td>0.675</td></tr> <tr><td>689</td><td>0.675</td><td>739</td><td>0.675</td><td>789</td><td>0.675</td><td>839</td><td>0.675</td><td>889</td><td>0.675</td><td>939</td><td>0.675</td></tr> <tr><td>690</td><td>0.675</td><td>740</td><td>0.675</td><td>790</td><td>0.675</td><td>840</td><td>0.675</td><td>890</td><td>0.675</td><td>940</td><td>0.675</td></tr> <tr><td>691</td><td>0.675</td><td>741</td><td>0.675</td><td>791</td><td>0.675</td><td>841</td><td>0.675</td><td>891</td><td>0.675</td><td>941</td><td>0.675</td></tr> <tr><td>692</td><td>0.675</td><td>742</td><td>0.675</td><td>792</td><td>0.675</td><td>842</td><td>0.675</td><td>892</td><td>0.675</td><td>942</td><td>0.675</td></tr> <tr><td>693</td><td>0.675</td><td>743</td><td>0.675</td><td>793</td><td>0.675</td><td>843</td><td>0.675</td><td>893</td><td>0.675</td><td>943</td><td>0.675</td></tr> <tr><td>694</td><td>0.675</td><td>744</td><td>0.675</td><td>794</td><td>0.675</td><td>844</td><td>0.675</td><td>894</td><td>0.675</td><td>944</td><td>0.675</td></tr> <tr><td>695</td><td>0.675</td><td>745</td><td>0.675</td><td>795</td><td>0.675</td><td>845</td><td>0.675</td><td>895</td><td>0.675</td><td>945</td><td>0.675</td></tr> <tr><td>696</td><td>0.675</td><td>746</td><td>0.675</td><td>796</td><td>0.675</td><td>846</td><td>0.675</td><td>896</td><td>0.675</td><td>946</td><td>0.675</td></tr> <tr><td>697</td><td>0.675</td><td>747</td><td>0.675</td><td>797</td><td>0.675</td><td>847</td><td>0.675</td><td>897</td><td>0.675</td><td>947</td><td>0.675</td></tr> <tr><td>698</td><td>0.675</td><td>748</td><td>0.675</td><td>798</td><td>0.675</td><td>848</td><td>0.675</td><td>898</td><td>0.675</td><td>948</td><td>0.675</td></tr> <tr><td>699</td><td>0.675</td><td>749</td><td>0.675</td><td>799</td><td>0.675</td><td>849</td><td>0.675</td><td>899</td><td>0.675</td><td>949</td><td>0.675</td></tr> <tr><td>700</td><td>0.675</td><td>750</td><td>0.675</td><td>800</td><td>0.675</td><td>850</td><td>0.675</td><td>900</td><td>0.675</td><td>950</td><td>0.675</td></tr> <tr><td>701</td><td>0.675</td><td>751</td><td>0.675</td><td>801</td><td>0.675</td><td>851</td><td>0.675</td><td>901</td><td>0.675</td><td>951</td><td>0.675</td></tr> <tr><td>702</td><td>0.675</td><td>752</td><td>0.675</td><td>802</td><td>0.675</td><td>852</td><td>0.675</td><td>902</td><td>0.675</td><td>952</td><td>0.675</td></tr> <tr><td>703</td><td>0.675</td><td>753</td><td>0.675</td><td>803</td><td>0.675</td><td>853</td><td>0.675</td><td>903</td><td>0.675</td><td>953</td><td>0.675</td></tr> <tr><td>704</td><td>0.675</td><td>754</td><td>0.675</td><td>804</td><td>0.675</td><td>854</td><td>0.675</td><td>904</td><td>0.675</td><td>954</td><td>0.675</td></tr> <tr><td>705</td><td>0.675</td><td>755</td><td>0.675</td><td>805</td><td>0.675</td><td>855</td><td>0.675</td><td>905</td><td>0.675</td><td>955</td><td>0.675</td></tr> <tr><td>706</td><td>0.675</td><td>756</td><td>0.675</td><td>806</td><td>0.675</td><td>856</td><td>0.675</td><td>906</td><td>0.675</td><td>956</td><td>0.675</td></tr> <tr><td>707</td><td>0.675</td><td>757</td><td>0.675</td><td>807</td><td>0.675</td><td>857</td><td>0.675</td><td>907</td><td>0.675</td><td>957</td><td>0.675</td></tr> <tr><td>708</td><td>0.675</td><td>758</td><td>0.675</td><td>808</td><td>0.675</td><td>858</td><td>0.675</td><td>908</td><td>0.675</td><td>958</td><td>0.675</td></tr> <tr><td>709</td><td>0.675</td><td>759</td><td>0.675</td><td>809</td><td>0.675</td><td>859</td><td>0.675</td><td>909</td><td>0.675</td><td>959</td><td>0.675</td></tr> <tr><td>710</td><td>0.675</td><td>760</td><td>0.675</td><td>810</td><td>0.675</td><td>860</td><td>0.675</td><td>910</td><td>0.675</td><td>960</td><td>0.675</td></tr> <tr><td>711</td><td>0.675</td><td>761</td><td>0.675</td><td>811</td><td>0.675</td><td>861</td><td>0.675</td><td>911</td><td>0.675</td><td>961</td><td>0.675</td></tr> <tr><td>712</td><td>0.675</td><td>762</td><td>0.675</td><td>812</td><td>0.675</td><td>862</td><td>0.675</td><td>912</td><td>0.675</td><td>962</td><td>0.675</td></tr> <tr><td>713</td><td>0.675</td><td>763</td><td>0.675</td><td>813</td><td>0.675</td><td>863</td><td>0.675</td><td>913</td><td>0.675</td><td>963</td><td>0.675</td></tr> <tr><td>714</td><td>0.675</td><td>764</td><td>0.675</td><td>814</td><td>0.675</td><td>864</td><td>0.675</td><td>914</td><td>0.675</td><td>964</td><td>0.675</td></tr> <tr><td>715</td><td>0.675</td><td>765</td><td>0.675</td><td>815</td><td>0.675</td><td>865</td><td>0.675</td><td>915</td><td>0.675</td><td>965</td><td>0.675</td></tr> <tr><td>716</td><td>0.675</td><td>766</td><td>0.675</td><td>816</td><td>0.675</td><td>866</td><td>0.675</td><td>916</td><td>0.675</td><td>966</td><td>0.675</td></tr> <tr><td>717</td><td>0.675</td><td>767</td><td>0.675</td></tr></tbody></table> |              |                |              |                                               |              |                |              |                                                                                     |              |                |              | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | 685 | 0.675 | 735 | 0.675 | 785 | 0.675 | 835 | 0.675 | 885 | 0.675 | 935 | 0.675 | 686 | 0.675 | 736 | 0.675 | 786 | 0.675 | 836 | 0.675 | 886 | 0.675 | 936 | 0.675 | 687 | 0.675 | 737 | 0.675 | 787 | 0.675 | 837 | 0.675 | 887 | 0.675 | 937 | 0.675 | 688 | 0.675 | 738 | 0.675 | 788 | 0.675 | 838 | 0.675 | 888 | 0.675 | 938 | 0.675 | 689 | 0.675 | 739 | 0.675 | 789 | 0.675 | 839 | 0.675 | 889 | 0.675 | 939 | 0.675 | 690 | 0.675 | 740 | 0.675 | 790 | 0.675 | 840 | 0.675 | 890 | 0.675 | 940 | 0.675 | 691 | 0.675 | 741 | 0.675 | 791 | 0.675 | 841 | 0.675 | 891 | 0.675 | 941 | 0.675 | 692 | 0.675 | 742 | 0.675 | 792 | 0.675 | 842 | 0.675 | 892 | 0.675 | 942 | 0.675 | 693 | 0.675 | 743 | 0.675 | 793 | 0.675 | 843 | 0.675 | 893 | 0.675 | 943 | 0.675 | 694 | 0.675 | 744 | 0.675 | 794 | 0.675 | 844 | 0.675 | 894 | 0.675 | 944 | 0.675 | 695 | 0.675 | 745 | 0.675 | 795 | 0.675 | 845 | 0.675 | 895 | 0.675 | 945 | 0.675 | 696 | 0.675 | 746 | 0.675 | 796 | 0.675 | 846 | 0.675 | 896 | 0.675 | 946 | 0.675 | 697 | 0.675 | 747 | 0.675 | 797 | 0.675 | 847 | 0.675 | 897 | 0.675 | 947 | 0.675 | 698 | 0.675 | 748 | 0.675 | 798 | 0.675 | 848 | 0.675 | 898 | 0.675 | 948 | 0.675 | 699 | 0.675 | 749 | 0.675 | 799 | 0.675 | 849 | 0.675 | 899 | 0.675 | 949 | 0.675 | 700 | 0.675 | 750 | 0.675 | 800 | 0.675 | 850 | 0.675 | 900 | 0.675 | 950 | 0.675 | 701 | 0.675 | 751 | 0.675 | 801 | 0.675 | 851 | 0.675 | 901 | 0.675 | 951 | 0.675 | 702 | 0.675 | 752 | 0.675 | 802 | 0.675 | 852 | 0.675 | 902 | 0.675 | 952 | 0.675 | 703 | 0.675 | 753 | 0.675 | 803 | 0.675 | 853 | 0.675 | 903 | 0.675 | 953 | 0.675 | 704 | 0.675 | 754 | 0.675 | 804 | 0.675 | 854 | 0.675 | 904 | 0.675 | 954 | 0.675 | 705 | 0.675 | 755 | 0.675 | 805 | 0.675 | 855 | 0.675 | 905 | 0.675 | 955 | 0.675 | 706 | 0.675 | 756 | 0.675 | 806 | 0.675 | 856 | 0.675 | 906 | 0.675 | 956 | 0.675 | 707 | 0.675 | 757 | 0.675 | 807 | 0.675 | 857 | 0.675 | 907 | 0.675 | 957 | 0.675 | 708 | 0.675 | 758 | 0.675 | 808 | 0.675 | 858 | 0.675 | 908 | 0.675 | 958 | 0.675 | 709 | 0.675 | 759 | 0.675 | 809 | 0.675 | 859 | 0.675 | 909 | 0.675 | 959 | 0.675 | 710 | 0.675 | 760 | 0.675 | 810 | 0.675 | 860 | 0.675 | 910 | 0.675 | 960 | 0.675 | 711 | 0.675 | 761 | 0.675 | 811 | 0.675 | 861 | 0.675 | 911 | 0.675 | 961 | 0.675 | 712 | 0.675 | 762 | 0.675 | 812 | 0.675 | 862 | 0.675 | 912 | 0.675 | 962 | 0.675 | 713 | 0.675 | 763 | 0.675 | 813 | 0.675 | 863 | 0.675 | 913 | 0.675 | 963 | 0.675 | 714 | 0.675 | 764 | 0.675 | 814 | 0.675 | 864 | 0.675 | 914 | 0.675 | 964 | 0.675 | 715 | 0.675 | 765 | 0.675 | 815 | 0.675 | 865 | 0.675 | 915 | 0.675 | 965 | 0.675 | 716 | 0.675 | 766 | 0.675 | 816 | 0.675 | 866 | 0.675 | 916 | 0.675 | 966 | 0.675 | 717 | 0.675 | 767 | 0.675 |
| Time<br>(mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                       | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 685                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 735            | 0.675        | 785                                           | 0.675        | 835            | 0.675        | 885                                                                                 | 0.675        | 935            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 686                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 736            | 0.675        | 786                                           | 0.675        | 836            | 0.675        | 886                                                                                 | 0.675        | 936            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 687                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 737            | 0.675        | 787                                           | 0.675        | 837            | 0.675        | 887                                                                                 | 0.675        | 937            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 688                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 738            | 0.675        | 788                                           | 0.675        | 838            | 0.675        | 888                                                                                 | 0.675        | 938            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 689                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 739            | 0.675        | 789                                           | 0.675        | 839            | 0.675        | 889                                                                                 | 0.675        | 939            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.675        | 740            | 0.675        | 790                                           | 0.675        | 840            | 0.675        | 890                                                                                 | 0.675        | 940            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.675        | 741            | 0.675        | 791                                           | 0.675        | 841            | 0.675        | 891                                                                                 | 0.675        | 941            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.675        | 742            | 0.675        | 792                                           | 0.675        | 842            | 0.675        | 892                                                                                 | 0.675        | 942            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.675        | 743            | 0.675        | 793                                           | 0.675        | 843            | 0.675        | 893                                                                                 | 0.675        | 943            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.675        | 744            | 0.675        | 794                                           | 0.675        | 844            | 0.675        | 894                                                                                 | 0.675        | 944            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 695                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 745            | 0.675        | 795                                           | 0.675        | 845            | 0.675        | 895                                                                                 | 0.675        | 945            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 696                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 746            | 0.675        | 796                                           | 0.675        | 846            | 0.675        | 896                                                                                 | 0.675        | 946            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 697                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 747            | 0.675        | 797                                           | 0.675        | 847            | 0.675        | 897                                                                                 | 0.675        | 947            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.675        | 748            | 0.675        | 798                                           | 0.675        | 848            | 0.675        | 898                                                                                 | 0.675        | 948            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.675        | 749            | 0.675        | 799                                           | 0.675        | 849            | 0.675        | 899                                                                                 | 0.675        | 949            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.675        | 750            | 0.675        | 800                                           | 0.675        | 850            | 0.675        | 900                                                                                 | 0.675        | 950            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.675        | 751            | 0.675        | 801                                           | 0.675        | 851            | 0.675        | 901                                                                                 | 0.675        | 951            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 702                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 752            | 0.675        | 802                                           | 0.675        | 852            | 0.675        | 902                                                                                 | 0.675        | 952            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 703                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 753            | 0.675        | 803                                           | 0.675        | 853            | 0.675        | 903                                                                                 | 0.675        | 953            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.675        | 754            | 0.675        | 804                                           | 0.675        | 854            | 0.675        | 904                                                                                 | 0.675        | 954            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.675        | 755            | 0.675        | 805                                           | 0.675        | 855            | 0.675        | 905                                                                                 | 0.675        | 955            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.675        | 756            | 0.675        | 806                                           | 0.675        | 856            | 0.675        | 906                                                                                 | 0.675        | 956            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.675        | 757            | 0.675        | 807                                           | 0.675        | 857            | 0.675        | 907                                                                                 | 0.675        | 957            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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                       | 0.675        | 958            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 709                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 759            | 0.675        | 809                                           | 0.675        | 859            | 0.675        | 909                                                                                 | 0.675        | 959            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 710                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                       | 0.675        | 960            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 711                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 761            | 0.675        | 811                                           | 0.675        | 861            | 0.675        | 911                                                                                 | 0.675        | 961            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 712                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                       | 0.675        | 962            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 713                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 763            | 0.675        | 813                                           | 0.675        | 863            | 0.675        | 913                                                                                 | 0.675        | 963            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 714                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 764            | 0.675        | 814                                           | 0.675        | 864            | 0.675        | 914                                                                                 | 0.675        | 964            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 715                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 765            | 0.675        | 815                                           | 0.675        | 865            | 0.675        | 915                                                                                 | 0.675        | 965            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 716                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 766            | 0.675        | 816                                           | 0.675        | 866            | 0.675        | 916                                                                                 | 0.675        | 966            | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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| 717                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                       |              |                |              |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |    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           |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |   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| Date 13/07/2022 22:28<br>File 20220713-Block A, M J3 ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| <p style="text-align: center;"><u>Surcharged Outfall Details for Storm</u></p> <table border="1"> <thead> <tr> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> </tr> </thead> <tbody> <tr><td>985</td><td>0.675</td><td>1035</td><td>0.675</td><td>1085</td><td>0.675</td><td>1135</td><td>0.675</td><td>1185</td><td>0.675</td><td>1235</td><td>0.675</td></tr> <tr><td>986</td><td>0.675</td><td>1036</td><td>0.675</td><td>1086</td><td>0.675</td><td>1136</td><td>0.675</td><td>1186</td><td>0.675</td><td>1236</td><td>0.675</td></tr> <tr><td>987</td><td>0.675</td><td>1037</td><td>0.675</td><td>1087</td><td>0.675</td><td>1137</td><td>0.675</td><td>1187</td><td>0.675</td><td>1237</td><td>0.675</td></tr> <tr><td>988</td><td>0.675</td><td>1038</td><td>0.675</td><td>1088</td><td>0.675</td><td>1138</td><td>0.675</td><td>1188</td><td>0.675</td><td>1238</td><td>0.675</td></tr> <tr><td>989</td><td>0.675</td><td>1039</td><td>0.675</td><td>1089</td><td>0.675</td><td>1139</td><td>0.675</td><td>1189</td><td>0.675</td><td>1239</td><td>0.675</td></tr> <tr><td>990</td><td>0.675</td><td>1040</td><td>0.675</td><td>1090</td><td>0.675</td><td>1140</td><td>0.675</td><td>1190</td><td>0.675</td><td>1240</td><td>0.675</td></tr> <tr><td>991</td><td>0.675</td><td>1041</td><td>0.675</td><td>1091</td><td>0.675</td><td>1141</td><td>0.675</td><td>1191</td><td>0.675</td><td>1241</td><td>0.675</td></tr> <tr><td>992</td><td>0.675</td><td>1042</td><td>0.675</td><td>1092</td><td>0.675</td><td>1142</td><td>0.675</td><td>1192</td><td>0.675</td><td>1242</td><td>0.675</td></tr> <tr><td>993</td><td>0.675</td><td>1043</td><td>0.675</td><td>1093</td><td>0.675</td><td>1143</td><td>0.675</td><td>1193</td><td>0.675</td><td>1243</td><td>0.675</td></tr> <tr><td>994</td><td>0.675</td><td>1044</td><td>0.675</td><td>1094</td><td>0.675</td><td>1144</td><td>0.675</td><td>1194</td><td>0.675</td><td>1244</td><td>0.675</td></tr> <tr><td>995</td><td>0.675</td><td>1045</td><td>0.675</td><td>1095</td><td>0.675</td><td>1145</td><td>0.675</td><td>1195</td><td>0.675</td><td>1245</td><td>0.675</td></tr> <tr><td>996</td><td>0.675</td><td>1046</td><td>0.675</td><td>1096</td><td>0.675</td><td>1146</td><td>0.675</td><td>1196</td><td>0.675</td><td>1246</td><td>0.675</td></tr> <tr><td>997</td><td>0.675</td><td>1047</td><td>0.675</td><td>1097</td><td>0.675</td><td>1147</td><td>0.675</td><td>1197</td><td>0.675</td><td>1247</td><td>0.675</td></tr> <tr><td>998</td><td>0.675</td><td>1048</td><td>0.675</td><td>1098</td><td>0.675</td><td>1148</td><td>0.675</td><td>1198</td><td>0.675</td><td>1248</td><td>0.675</td></tr> <tr><td>999</td><td>0.675</td><td>1049</td><td>0.675</td><td>1099</td><td>0.675</td><td>1149</td><td>0.675</td><td>1199</td><td>0.675</td><td>1249</td><td>0.675</td></tr> <tr><td>1000</td><td>0.675</td><td>1050</td><td>0.675</td><td>1100</td><td>0.675</td><td>1150</td><td>0.675</td><td>1200</td><td>0.675</td><td>1250</td><td>0.675</td></tr> <tr><td>1001</td><td>0.675</td><td>1051</td><td>0.675</td><td>1101</td><td>0.675</td><td>1151</td><td>0.675</td><td>1201</td><td>0.675</td><td>1251</td><td>0.675</td></tr> <tr><td>1002</td><td>0.675</td><td>1052</td><td>0.675</td><td>1102</td><td>0.675</td><td>1152</td><td>0.675</td><td>1202</td><td>0.675</td><td>1252</td><td>0.675</td></tr> <tr><td>1003</td><td>0.675</td><td>1053</td><td>0.675</td><td>1103</td><td>0.675</td><td>1153</td><td>0.675</td><td>1203</td><td>0.675</td><td>1253</td><td>0.675</td></tr> <tr><td>1004</td><td>0.675</td><td>1054</td><td>0.675</td><td>1104</td><td>0.675</td><td>1154</td><td>0.675</td><td>1204</td><td>0.675</td><td>1254</td><td>0.675</td></tr> <tr><td>1005</td><td>0.675</td><td>1055</td><td>0.675</td><td>1105</td><td>0.675</td><td>1155</td><td>0.675</td><td>1205</td><td>0.675</td><td>1255</td><td>0.675</td></tr> <tr><td>1006</td><td>0.675</td><td>1056</td><td>0.675</td><td>1106</td><td>0.675</td><td>1156</td><td>0.675</td><td>1206</td><td>0.675</td><td>1256</td><td>0.675</td></tr> <tr><td>1007</td><td>0.675</td><td>1057</td><td>0.675</td><td>1107</td><td>0.675</td><td>1157</td><td>0.675</td><td>1207</td><td>0.675</td><td>1257</td><td>0.675</td></tr> <tr><td>1008</td><td>0.675</td><td>1058</td><td>0.675</td><td>1108</td><td>0.675</td><td>1158</td><td>0.675</td><td>1208</td><td>0.675</td><td>1258</td><td>0.675</td></tr> <tr><td>1009</td><td>0.675</td><td>1059</td><td>0.675</td><td>1109</td><td>0.675</td><td>1159</td><td>0.675</td><td>1209</td><td>0.675</td><td>1259</td><td>0.675</td></tr> <tr><td>1010</td><td>0.675</td><td>1060</td><td>0.675</td><td>1110</td><td>0.675</td><td>1160</td><td>0.675</td><td>1210</td><td>0.675</td><td>1260</td><td>0.675</td></tr> <tr><td>1011</td><td>0.675</td><td>1061</td><td>0.675</td><td>1111</td><td>0.675</td><td>1161</td><td>0.675</td><td>1211</td><td>0.675</td><td>1261</td><td>0.675</td></tr> <tr><td>1012</td><td>0.675</td><td>1062</td><td>0.675</td><td>1112</td><td>0.675</td><td>1162</td><td>0.675</td><td>1212</td><td>0.675</td><td>1262</td><td>0.675</td></tr> <tr><td>1013</td><td>0.675</td><td>1063</td><td>0.675</td><td>1113</td><td>0.675</td><td>1163</td><td>0.675</td><td>1213</td><td>0.675</td><td>1263</td><td>0.675</td></tr> <tr><td>1014</td><td>0.675</td><td>1064</td><td>0.675</td><td>1114</td><td>0.675</td><td>1164</td><td>0.675</td><td>1214</td><td>0.675</td><td>1264</td><td>0.675</td></tr> <tr><td>1015</td><td>0.675</td><td>1065</td><td>0.675</td><td>1115</td><td>0.675</td><td>1165</td><td>0.675</td><td>1215</td><td>0.67</td></tr></tbody></table> |              |                |              |                                               |              |                |              |                                                                                     |              |                |              | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | 985 | 0.675 | 1035 | 0.675 | 1085 | 0.675 | 1135 | 0.675 | 1185 | 0.675 | 1235 | 0.675 | 986 | 0.675 | 1036 | 0.675 | 1086 | 0.675 | 1136 | 0.675 | 1186 | 0.675 | 1236 | 0.675 | 987 | 0.675 | 1037 | 0.675 | 1087 | 0.675 | 1137 | 0.675 | 1187 | 0.675 | 1237 | 0.675 | 988 | 0.675 | 1038 | 0.675 | 1088 | 0.675 | 1138 | 0.675 | 1188 | 0.675 | 1238 | 0.675 | 989 | 0.675 | 1039 | 0.675 | 1089 | 0.675 | 1139 | 0.675 | 1189 | 0.675 | 1239 | 0.675 | 990 | 0.675 | 1040 | 0.675 | 1090 | 0.675 | 1140 | 0.675 | 1190 | 0.675 | 1240 | 0.675 | 991 | 0.675 | 1041 | 0.675 | 1091 | 0.675 | 1141 | 0.675 | 1191 | 0.675 | 1241 | 0.675 | 992 | 0.675 | 1042 | 0.675 | 1092 | 0.675 | 1142 | 0.675 | 1192 | 0.675 | 1242 | 0.675 | 993 | 0.675 | 1043 | 0.675 | 1093 | 0.675 | 1143 | 0.675 | 1193 | 0.675 | 1243 | 0.675 | 994 | 0.675 | 1044 | 0.675 | 1094 | 0.675 | 1144 | 0.675 | 1194 | 0.675 | 1244 | 0.675 | 995 | 0.675 | 1045 | 0.675 | 1095 | 0.675 | 1145 | 0.675 | 1195 | 0.675 | 1245 | 0.675 | 996 | 0.675 | 1046 | 0.675 | 1096 | 0.675 | 1146 | 0.675 | 1196 | 0.675 | 1246 | 0.675 | 997 | 0.675 | 1047 | 0.675 | 1097 | 0.675 | 1147 | 0.675 | 1197 | 0.675 | 1247 | 0.675 | 998 | 0.675 | 1048 | 0.675 | 1098 | 0.675 | 1148 | 0.675 | 1198 | 0.675 | 1248 | 0.675 | 999 | 0.675 | 1049 | 0.675 | 1099 | 0.675 | 1149 | 0.675 | 1199 | 0.675 | 1249 | 0.675 | 1000 | 0.675 | 1050 | 0.675 | 1100 | 0.675 | 1150 | 0.675 | 1200 | 0.675 | 1250 | 0.675 | 1001 | 0.675 | 1051 | 0.675 | 1101 | 0.675 | 1151 | 0.675 | 1201 | 0.675 | 1251 | 0.675 | 1002 | 0.675 | 1052 | 0.675 | 1102 | 0.675 | 1152 | 0.675 | 1202 | 0.675 | 1252 | 0.675 | 1003 | 0.675 | 1053 | 0.675 | 1103 | 0.675 | 1153 | 0.675 | 1203 | 0.675 | 1253 | 0.675 | 1004 | 0.675 | 1054 | 0.675 | 1104 | 0.675 | 1154 | 0.675 | 1204 | 0.675 | 1254 | 0.675 | 1005 | 0.675 | 1055 | 0.675 | 1105 | 0.675 | 1155 | 0.675 | 1205 | 0.675 | 1255 | 0.675 | 1006 | 0.675 | 1056 | 0.675 | 1106 | 0.675 | 1156 | 0.675 | 1206 | 0.675 | 1256 | 0.675 | 1007 | 0.675 | 1057 | 0.675 | 1107 | 0.675 | 1157 | 0.675 | 1207 | 0.675 | 1257 | 0.675 | 1008 | 0.675 | 1058 | 0.675 | 1108 | 0.675 | 1158 | 0.675 | 1208 | 0.675 | 1258 | 0.675 | 1009 | 0.675 | 1059 | 0.675 | 1109 | 0.675 | 1159 | 0.675 | 1209 | 0.675 | 1259 | 0.675 | 1010 | 0.675 | 1060 | 0.675 | 1110 | 0.675 | 1160 | 0.675 | 1210 | 0.675 | 1260 | 0.675 | 1011 | 0.675 | 1061 | 0.675 | 1111 | 0.675 | 1161 | 0.675 | 1211 | 0.675 | 1261 | 0.675 | 1012 | 0.675 | 1062 | 0.675 | 1112 | 0.675 | 1162 | 0.675 | 1212 | 0.675 | 1262 | 0.675 | 1013 | 0.675 | 1063 | 0.675 | 1113 | 0.675 | 1163 | 0.675 | 1213 | 0.675 | 1263 | 0.675 | 1014 | 0.675 | 1064 | 0.675 | 1114 | 0.675 | 1164 | 0.675 | 1214 | 0.675 | 1264 | 0.675 | 1015 | 0.675 | 1065 | 0.675 | 1115 | 0.675 | 1165 | 0.675 | 1215 | 0.67 |
| Time<br>(mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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               |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 985                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.675        | 1035           | 0.675        | 1085                                          | 0.675        | 1135           | 0.675        | 1185                                                                                | 0.675        | 1235           | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 986                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.675        | 1036           | 0.675        | 1086                                          | 0.675        | 1136           | 0.675        | 1186                                                                                | 0.675        | 1236           | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 987                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.675        | 1037           | 0.675        | 1087                                          | 0.675        | 1137           | 0.675        | 1187                                                                                | 0.675        | 1237           | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 988                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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               |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 989                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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               |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 990                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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               |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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               |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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               |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 993                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.675        | 1043           | 0.675        | 1093                                          | 0.675        | 1143           | 0.675        | 1193                                                                                | 0.675        | 1243           | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 994                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.675        | 1044           | 0.675        | 1094                                          | 0.675        | 1144           | 0.675        | 1194                                                                                | 0.675        | 1244           | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 995                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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               |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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               |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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               |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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               |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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               |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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               |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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               |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 1003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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               |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 1004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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               |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 1005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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               |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 1006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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               |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 1007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.675        | 1057           | 0.675        | 1107                                          | 0.675        | 1157           | 0.675        | 1207                                                                                | 0.675        | 1257           | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 1008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.675        | 1058           | 0.675        | 1108                                          | 0.675        | 1158           | 0.675        | 1208                                                                                | 0.675        | 1258           | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 1009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.675        | 1059           | 0.675        | 1109                                          | 0.675        | 1159           | 0.675        | 1209                                                                                | 0.675        | 1259           | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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   |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |      |
| 1010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.675        | 1060           | 0.675        | 1110                                          | 0.675        | 1160           | 0.675        | 1210                                                                                | 0.675        | 1260           | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |    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| 1011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.675        | 1061           | 0.675        | 1111                                          | 0.675        | 1161           | 0.675        | 1211                                                                                | 0.675        | 1261           | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 1012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.675        | 1062           | 0.675        | 1112                                          | 0.675        | 1162           | 0.675        | 1212                                                                                | 0.675        | 1262           | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |      |
| 1013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.675        | 1063           | 0.675        | 1113                                          | 0.675        | 1163           | 0.675        | 1213                                                                                | 0.675        | 1263           | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 1014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.675        | 1064           | 0.675        | 1114                                          | 0.675        | 1164           | 0.675        | 1214                                                                                | 0.675        | 1264           | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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| 1015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.675        | 1065           | 0.675        | 1115                                          | 0.675        | 1165           | 0.675        | 1215                                                                                | 0.67         |                |              |                |              |                |              |                |              |                |              |                |              |                |              |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |      |       |      |       |     |   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   |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |       |      |      |

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| EAS Transport Planning                                                |              |                |              | Page 13                                       |              |                |              |                                                                                     |              |                |              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |              |                |              | Block A, M, J3 and K/L<br>SW Drainage Network |              |                |              |  |              |                |              |
| Date 13/07/2022 22:28                                                 |              |                |              | Designed by EAS                               |              |                |              |                                                                                     |              |                |              |
| File 20220713-Block A, M J3 ...                                       |              |                |              | Checked by                                    |              |                |              |                                                                                     |              |                |              |
| Innovyze                                                              |              |                |              | Network 2020.1.3                              |              |                |              |                                                                                     |              |                |              |
| <u>Surcharged Outfall Details for Storm</u>                           |              |                |              |                                               |              |                |              |                                                                                     |              |                |              |
| Time<br>(mins)                                                        | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) |
| 1285                                                                  | 0.675        | 1311           | 0.675        | 1337                                          | 0.675        | 1363           | 0.675        | 1389                                                                                | 0.675        | 1415           | 0.675        |
| 1286                                                                  | 0.675        | 1312           | 0.675        | 1338                                          | 0.675        | 1364           | 0.675        | 1390                                                                                | 0.675        | 1416           | 0.675        |
| 1287                                                                  | 0.675        | 1313           | 0.675        | 1339                                          | 0.675        | 1365           | 0.675        | 1391                                                                                | 0.675        | 1417           | 0.675        |
| 1288                                                                  | 0.675        | 1314           | 0.675        | 1340                                          | 0.675        | 1366           | 0.675        | 1392                                                                                | 0.675        | 1418           | 0.675        |
| 1289                                                                  | 0.675        | 1315           | 0.675        | 1341                                          | 0.675        | 1367           | 0.675        | 1393                                                                                | 0.675        | 1419           | 0.675        |
| 1290                                                                  | 0.675        | 1316           | 0.675        | 1342                                          | 0.675        | 1368           | 0.675        | 1394                                                                                | 0.675        | 1420           | 0.675        |
| 1291                                                                  | 0.675        | 1317           | 0.675        | 1343                                          | 0.675        | 1369           | 0.675        | 1395                                                                                | 0.675        | 1421           | 0.675        |
| 1292                                                                  | 0.675        | 1318           | 0.675        | 1344                                          | 0.675        | 1370           | 0.675        | 1396                                                                                | 0.675        | 1422           | 0.675        |
| 1293                                                                  | 0.675        | 1319           | 0.675        | 1345                                          | 0.675        | 1371           | 0.675        | 1397                                                                                | 0.675        | 1423           | 0.675        |
| 1294                                                                  | 0.675        | 1320           | 0.675        | 1346                                          | 0.675        | 1372           | 0.675        | 1398                                                                                | 0.675        | 1424           | 0.675        |
| 1295                                                                  | 0.675        | 1321           | 0.675        | 1347                                          | 0.675        | 1373           | 0.675        | 1399                                                                                | 0.675        | 1425           | 0.675        |
| 1296                                                                  | 0.675        | 1322           | 0.675        | 1348                                          | 0.675        | 1374           | 0.675        | 1400                                                                                | 0.675        | 1426           | 0.675        |
| 1297                                                                  | 0.675        | 1323           | 0.675        | 1349                                          | 0.675        | 1375           | 0.675        | 1401                                                                                | 0.675        | 1427           | 0.675        |
| 1298                                                                  | 0.675        | 1324           | 0.675        | 1350                                          | 0.675        | 1376           | 0.675        | 1402                                                                                | 0.675        | 1428           | 0.675        |
| 1299                                                                  | 0.675        | 1325           | 0.675        | 1351                                          | 0.675        | 1377           | 0.675        | 1403                                                                                | 0.675        | 1429           | 0.675        |
| 1300                                                                  | 0.675        | 1326           | 0.675        | 1352                                          | 0.675        | 1378           | 0.675        | 1404                                                                                | 0.675        | 1430           | 0.675        |
| 1301                                                                  | 0.675        | 1327           | 0.675        | 1353                                          | 0.675        | 1379           | 0.675        | 1405                                                                                | 0.675        | 1431           | 0.675        |
| 1302                                                                  | 0.675        | 1328           | 0.675        | 1354                                          | 0.675        | 1380           | 0.675        | 1406                                                                                | 0.675        | 1432           | 0.675        |
| 1303                                                                  | 0.675        | 1329           | 0.675        | 1355                                          | 0.675        | 1381           | 0.675        | 1407                                                                                | 0.675        | 1433           | 0.675        |
| 1304                                                                  | 0.675        | 1330           | 0.675        | 1356                                          | 0.675        | 1382           | 0.675        | 1408                                                                                | 0.675        | 1434           | 0.675        |
| 1305                                                                  | 0.675        | 1331           | 0.675        | 1357                                          | 0.675        | 1383           | 0.675        | 1409                                                                                | 0.675        | 1435           | 0.675        |
| 1306                                                                  | 0.675        | 1332           | 0.675        | 1358                                          | 0.675        | 1384           | 0.675        | 1410                                                                                | 0.675        | 1436           | 0.675        |
| 1307                                                                  | 0.675        | 1333           | 0.675        | 1359                                          | 0.675        | 1385           | 0.675        | 1411                                                                                | 0.675        | 1437           | 0.675        |
| 1308                                                                  | 0.675        | 1334           | 0.675        | 1360                                          | 0.675        | 1386           | 0.675        | 1412                                                                                | 0.675        | 1438           | 0.675        |
| 1309                                                                  | 0.675        | 1335           | 0.675        | 1361                                          | 0.675        | 1387           | 0.675        | 1413                                                                                | 0.675        | 1439           | 0.675        |
| 1310                                                                  | 0.675        | 1336           | 0.675        | 1362                                          | 0.675        | 1388           | 0.675        | 1414                                                                                | 0.675        | 1440           | 0.675        |
| <u>Simulation Criteria for Storm</u>                                  |              |                |              |                                               |              |                |              |                                                                                     |              |                |              |
| Volumetric Runoff Coeff 0.750                                         |              |                |              | Additional Flow - % of Total Flow 0.000       |              |                |              |                                                                                     |              |                |              |
| Areal Reduction Factor 1.000                                          |              |                |              | MADD Factor * 10m³/ha Storage 2.000           |              |                |              |                                                                                     |              |                |              |
| Hot Start (mins) 0                                                    |              |                |              | Inlet Coefficient 0.800                       |              |                |              |                                                                                     |              |                |              |
| Hot Start Level (mm) 0                                                |              |                |              | Flow per Person per Day (l/per/day) 0.000     |              |                |              |                                                                                     |              |                |              |
| Manhole Headloss Coeff (Global) 0.500                                 |              |                |              | Run Time (mins) 60                            |              |                |              |                                                                                     |              |                |              |
| Foul Sewage per hectare (l/s) 0.000                                   |              |                |              | Output Interval (mins) 1                      |              |                |              |                                                                                     |              |                |              |
| Number of Input Hydrographs 0                                         |              |                |              | Number of Storage Structures 1                |              |                |              |                                                                                     |              |                |              |
| Number of Online Controls 1                                           |              |                |              | Number of Time/Area Diagrams 0                |              |                |              |                                                                                     |              |                |              |
| Number of Offline Controls 0                                          |              |                |              | Number of Real Time Controls 0                |              |                |              |                                                                                     |              |                |              |
| <u>Synthetic Rainfall Details</u>                                     |              |                |              |                                               |              |                |              |                                                                                     |              |                |              |
| Rainfall Model                                                        |              |                |              | FSR                                           |              |                |              | Profile Type Summer                                                                 |              |                |              |
| Return Period (years) 5                                               |              |                |              | Cv (Summer) 0.750                             |              |                |              |                                                                                     |              |                |              |
| Region England and Wales                                              |              |                |              | Cv (Winter) 0.840                             |              |                |              |                                                                                     |              |                |              |
| M5-60 (mm) 20.000                                                     |              |                |              | Storm Duration (mins) 30                      |              |                |              |                                                                                     |              |                |              |
| Ratio R 0.402                                                         |              |                |              |                                               |              |                |              |                                                                                     |              |                |              |
| ©1982-2020 Innovyze                                                   |              |                |              |                                               |              |                |              |                                                                                     |              |                |              |

| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                               |                  | Page 14                                                                             |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|------------------|-------------------------------------------------------------------------------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-------|--------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|--|--|-------|---------|-------|---------|-------|---------|--|--|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Block A, M, J3 and K/L<br>SW Drainage Network |                  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Date 13/07/2022 22:28<br>File 20220713-Block A, M J3 ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Designed by EAS<br>Checked by                 |                  |                                                                                     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Network 2020.1.3 |                                                                                     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| <p style="text-align: center;"><u>Online Controls for Storm</u></p> <p style="text-align: center;"><u>Pump Manhole: PUMP AND GEO, DS/PN: 1.009, Volume (m³): 13.1</u></p> <p style="text-align: center;">Invert Level (m) 0.458</p> <table><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr><tr><td>0.100</td><td>8.0000</td><td>0.900</td><td>65.0000</td><td>1.700</td><td>65.0000</td><td>2.500</td><td>65.0000</td></tr><tr><td>0.200</td><td>13.0000</td><td>1.000</td><td>65.0000</td><td>1.800</td><td>65.0000</td><td>2.600</td><td>65.0000</td></tr><tr><td>0.300</td><td>16.0000</td><td>1.100</td><td>65.0000</td><td>1.900</td><td>65.0000</td><td>2.700</td><td>65.0000</td></tr><tr><td>0.400</td><td>30.0000</td><td>1.200</td><td>65.0000</td><td>2.000</td><td>65.0000</td><td>2.800</td><td>65.0000</td></tr><tr><td>0.500</td><td>65.0000</td><td>1.300</td><td>65.0000</td><td>2.100</td><td>65.0000</td><td>2.900</td><td>65.0000</td></tr><tr><td>0.600</td><td>65.0000</td><td>1.400</td><td>65.0000</td><td>2.200</td><td>65.0000</td><td>3.000</td><td>65.0000</td></tr><tr><td>0.700</td><td>65.0000</td><td>1.500</td><td>65.0000</td><td>2.300</td><td>65.0000</td><td></td><td></td></tr><tr><td>0.800</td><td>65.0000</td><td>1.600</td><td>65.0000</td><td>2.400</td><td>65.0000</td><td></td><td></td></tr></table> |                                               |                  |                                                                                     | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | 0.100 | 8.0000 | 0.900 | 65.0000 | 1.700 | 65.0000 | 2.500 | 65.0000 | 0.200 | 13.0000 | 1.000 | 65.0000 | 1.800 | 65.0000 | 2.600 | 65.0000 | 0.300 | 16.0000 | 1.100 | 65.0000 | 1.900 | 65.0000 | 2.700 | 65.0000 | 0.400 | 30.0000 | 1.200 | 65.0000 | 2.000 | 65.0000 | 2.800 | 65.0000 | 0.500 | 65.0000 | 1.300 | 65.0000 | 2.100 | 65.0000 | 2.900 | 65.0000 | 0.600 | 65.0000 | 1.400 | 65.0000 | 2.200 | 65.0000 | 3.000 | 65.0000 | 0.700 | 65.0000 | 1.500 | 65.0000 | 2.300 | 65.0000 |  |  | 0.800 | 65.0000 | 1.600 | 65.0000 | 2.400 | 65.0000 |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Flow (l/s)                                    | Depth (m)        | Flow (l/s)                                                                          | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 8.0000                                        | 0.900            | 65.0000                                                                             | 1.700     | 65.0000    | 2.500     | 65.0000    |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 13.0000                                       | 1.000            | 65.0000                                                                             | 1.800     | 65.0000    | 2.600     | 65.0000    |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 16.0000                                       | 1.100            | 65.0000                                                                             | 1.900     | 65.0000    | 2.700     | 65.0000    |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 30.0000                                       | 1.200            | 65.0000                                                                             | 2.000     | 65.0000    | 2.800     | 65.0000    |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 65.0000                                       | 1.300            | 65.0000                                                                             | 2.100     | 65.0000    | 2.900     | 65.0000    |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 65.0000                                       | 1.400            | 65.0000                                                                             | 2.200     | 65.0000    | 3.000     | 65.0000    |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 65.0000                                       | 1.500            | 65.0000                                                                             | 2.300     | 65.0000    |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 65.0000                                       | 1.600            | 65.0000                                                                             | 2.400     | 65.0000    |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
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| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                               | Page 15                                                                             |           |           |                |           |           |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------|-----------|-----------|----------------|-----------|-----------|----------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-----|-----|-------|-------|-----|--|--|--|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Block A, M, J3 and K/L<br>SW Drainage Network |  |           |           |                |           |           |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |
| Date 13/07/2022 22:28<br>File 20220713-Block A, M J3 ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Designed by EAS<br>Checked by                 |                                                                                     |           |           |                |           |           |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |
| Innovyze<br>Network 2020.1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                               |                                                                                     |           |           |                |           |           |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |
| <div>Storage Structures for Storm</div> <div>Cellular Storage Manhole: PUMP AND GEO, DS/PN: 1.009</div> <div>Invert Level (m) 0.458 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95<br/>Infiltration Coefficient Side (m/hr) 0.00000</div> <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>307.2</td><td>0.0</td><td>1.670</td><td>307.2</td><td>0.0</td></tr><tr><td>0.660</td><td>307.2</td><td>0.0</td><td>1.671</td><td>0.0</td><td>0.0</td></tr><tr><td>1.320</td><td>307.2</td><td>0.0</td><td></td><td></td><td></td></tr></tbody></table> |                                               |                                                                                     | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | 0.000 | 307.2 | 0.0 | 1.670 | 307.2 | 0.0 | 0.660 | 307.2 | 0.0 | 1.671 | 0.0 | 0.0 | 1.320 | 307.2 | 0.0 |  |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Area (m²)                                     | Inf. Area (m²)                                                                      | Depth (m) | Area (m²) | Inf. Area (m²) |           |           |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 307.2                                         | 0.0                                                                                 | 1.670     | 307.2     | 0.0            |           |           |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |
| 0.660                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 307.2                                         | 0.0                                                                                 | 1.671     | 0.0       | 0.0            |           |           |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |
| 1.320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 307.2                                         | 0.0                                                                                 |           |           |                |           |           |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |
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EAS Transport Planning

Unit 23, The Maltings  
Stanstead Abbotts  
Hertfordshire, SG12 8HG

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File 20220713-Block A, M J3 ...

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Block A, M, J3 and K/L  
SW Drainage Network

Designed by EAS  
Checked by

Network 2020.1.3

Page 16



100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor \* 10m³/ha Storage 2.000

Hot Start Level (mm) 0

Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500

Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0

Number of Storage Structures 1

Number of Online Controls 1

Number of Time/Area Diagrams 0

Number of Offline Controls 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH

FEH Rainfall Version 2013

Site Location GB 623065 309383 TG 23065 09383

Data Type Point

Cv (Summer) 0.750

Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status ON

DVD Status ON

Inertia Status OFF

Profile(s) Summer and Winter

Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440

Return Period(s) (years) 100

Climate Change (%) 45

|       |       |                                  |       |       | Water | Surcharged | Flooded |          |  |
|-------|-------|----------------------------------|-------|-------|-------|------------|---------|----------|--|
|       |       |                                  |       |       | Level | Depth      | Volume  | Maximum  |  |
| PN    | US/MH | Event                            | US/CL |       | (m)   | (m)        | (m³)    | Vol (m³) |  |
| 1.000 | MH01  | 15 minute 100 year Winter I+45%  | 4.950 | 3.695 | 0.195 | 0.000      | 0.554   |          |  |
| 1.001 | MH02  | 15 minute 100 year Winter I+45%  | 4.950 | 3.671 | 0.480 | 0.000      | 2.156   |          |  |
| 1.002 | MH03  | 15 minute 100 year Winter I+45%  | 4.500 | 3.588 | 0.460 | 0.000      | 1.653   |          |  |
| 2.000 | MH04  | 15 minute 100 year Winter I+45%  | 4.050 | 3.698 | 0.427 | 0.000      | 0.817   |          |  |
| 2.001 | MH05  | 15 minute 100 year Winter I+45%  | 4.050 | 3.675 | 0.470 | 0.000      | 1.713   |          |  |
| 2.002 | MH06  | 15 minute 100 year Winter I+45%  | 4.050 | 3.596 | 0.452 | 0.000      | 1.587   |          |  |
| 1.003 | MH07  | 15 minute 100 year Winter I+45%  | 4.050 | 3.460 | 0.432 | 0.000      | 5.073   |          |  |
| 1.004 | MH08  | 120 minute 100 year Winter I+45% | 4.050 | 3.393 | 0.581 | 0.000      | 4.041   |          |  |
| 1.005 | MH09  | 120 minute 100 year Winter I+45% | 4.050 | 3.388 | 0.824 | 0.000      | 4.914   |          |  |
| 1.006 | MH10  | 120 minute 100 year Winter I+45% | 4.050 | 3.383 | 1.031 | 0.000      | 5.155   |          |  |
| 3.000 | MH11  | 120 minute 100 year Winter I+45% | 4.500 | 3.394 | 0.278 | 0.000      | 0.649   |          |  |
| 3.001 | MH12  | 120 minute 100 year Winter I+45% | 4.350 | 3.393 | 0.326 | 0.000      | 1.310   |          |  |
| 3.002 | MH13  | 120 minute 100 year Winter I+45% | 4.150 | 3.390 | 0.376 | 0.000      | 1.423   |          |  |
| 3.003 | MH14  | 120 minute 100 year Winter I+45% | 4.050 | 3.384 | 0.473 | 0.000      | 2.240   |          |  |
| 1.007 | MH15  | 120 minute 100 year Winter I+45% | 4.050 | 3.376 | 1.296 | 0.000      | 7.262   |          |  |
| 4.000 | MH16  | 120 minute 100 year Winter I+45% | 3.525 | 3.386 | 1.257 | 0.000      | 4.331   |          |  |

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| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |        | Page 17                                                                             |                 |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------|-------------------------------------------------------------------------------------|-----------------|--|--|--|--|--|-------|------|------|--|----|------|--------|-------|--------|-------|------|--|------|------------|-------|------|--|------|------------|-------|------|--|------|------------|-------|------|--|------|------------|-------|------|--|------|------------|-------|------|--|------|------------|-------|------|--|-------|------------|-------|------|--|------|------------|-------|------|--|------|------------|-------|------|--|-------|------------|-------|------|--|------|------------|-------|------|--|------|------------|-------|------|--|------|------------|-------|------|--|------|------------|-------|------|--|-------|------------|-------|------|--|------|------------|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Block A, M, J3 and K/L<br>SW Drainage Network |        |  |                 |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| Date 13/07/2022 22:28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Designed by EAS                               |        |                                                                                     |                 |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| File 20220713-Block A, M J3 ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Checked by                                    |        |                                                                                     |                 |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Network 2020.1.3                              |        |                                                                                     |                 |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| <u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                               |        |                                                                                     |                 |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| <table><thead><tr><th colspan="5">Half Drain Pipe</th></tr><tr><th></th><th>US/MH</th><th>Time</th><th>Flow</th><th></th></tr><tr><th>PN</th><th>Name</th><th>(mins)</th><th>(l/s)</th><th>Status</th></tr></thead><tbody><tr><td>1.000</td><td>MH01</td><td></td><td>37.1</td><td>SURCHARGED</td></tr><tr><td>1.001</td><td>MH02</td><td></td><td>63.4</td><td>SURCHARGED</td></tr><tr><td>1.002</td><td>MH03</td><td></td><td>90.9</td><td>SURCHARGED</td></tr><tr><td>2.000</td><td>MH04</td><td></td><td>31.8</td><td>SURCHARGED</td></tr><tr><td>2.001</td><td>MH05</td><td></td><td>59.7</td><td>SURCHARGED</td></tr><tr><td>2.002</td><td>MH06</td><td></td><td>90.2</td><td>SURCHARGED</td></tr><tr><td>1.003</td><td>MH07</td><td></td><td>181.7</td><td>SURCHARGED</td></tr><tr><td>1.004</td><td>MH08</td><td></td><td>86.3</td><td>SURCHARGED</td></tr><tr><td>1.005</td><td>MH09</td><td></td><td>97.0</td><td>SURCHARGED</td></tr><tr><td>1.006</td><td>MH10</td><td></td><td>107.7</td><td>SURCHARGED</td></tr><tr><td>3.000</td><td>MH11</td><td></td><td>10.8</td><td>SURCHARGED</td></tr><tr><td>3.001</td><td>MH12</td><td></td><td>21.7</td><td>SURCHARGED</td></tr><tr><td>3.002</td><td>MH13</td><td></td><td>32.2</td><td>SURCHARGED</td></tr><tr><td>3.003</td><td>MH14</td><td></td><td>43.2</td><td>SURCHARGED</td></tr><tr><td>1.007</td><td>MH15</td><td></td><td>161.5</td><td>SURCHARGED</td></tr><tr><td>4.000</td><td>MH16</td><td></td><td>10.7</td><td>FLOOD RISK</td></tr></tbody></table> |                                               |        |                                                                                     | Half Drain Pipe |  |  |  |  |  | US/MH | Time | Flow |  | PN | Name | (mins) | (l/s) | Status | 1.000 | MH01 |  | 37.1 | SURCHARGED | 1.001 | MH02 |  | 63.4 | SURCHARGED | 1.002 | MH03 |  | 90.9 | SURCHARGED | 2.000 | MH04 |  | 31.8 | SURCHARGED | 2.001 | MH05 |  | 59.7 | SURCHARGED | 2.002 | MH06 |  | 90.2 | SURCHARGED | 1.003 | MH07 |  | 181.7 | SURCHARGED | 1.004 | MH08 |  | 86.3 | SURCHARGED | 1.005 | MH09 |  | 97.0 | SURCHARGED | 1.006 | MH10 |  | 107.7 | SURCHARGED | 3.000 | MH11 |  | 10.8 | SURCHARGED | 3.001 | MH12 |  | 21.7 | SURCHARGED | 3.002 | MH13 |  | 32.2 | SURCHARGED | 3.003 | MH14 |  | 43.2 | SURCHARGED | 1.007 | MH15 |  | 161.5 | SURCHARGED | 4.000 | MH16 |  | 10.7 | FLOOD RISK |
| Half Drain Pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                               |        |                                                                                     |                 |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | US/MH                                         | Time   | Flow                                                                                |                 |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| PN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Name                                          | (mins) | (l/s)                                                                               | Status          |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MH01                                          |        | 37.1                                                                                | SURCHARGED      |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| 1.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MH02                                          |        | 63.4                                                                                | SURCHARGED      |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| 1.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MH03                                          |        | 90.9                                                                                | SURCHARGED      |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| 2.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MH04                                          |        | 31.8                                                                                | SURCHARGED      |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| 2.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MH05                                          |        | 59.7                                                                                | SURCHARGED      |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| 2.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MH06                                          |        | 90.2                                                                                | SURCHARGED      |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| 1.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MH07                                          |        | 181.7                                                                               | SURCHARGED      |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| 1.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MH08                                          |        | 86.3                                                                                | SURCHARGED      |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| 1.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MH09                                          |        | 97.0                                                                                | SURCHARGED      |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| 1.006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MH10                                          |        | 107.7                                                                               | SURCHARGED      |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| 3.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MH11                                          |        | 10.8                                                                                | SURCHARGED      |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| 3.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MH12                                          |        | 21.7                                                                                | SURCHARGED      |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| 3.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MH13                                          |        | 32.2                                                                                | SURCHARGED      |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| 3.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MH14                                          |        | 43.2                                                                                | SURCHARGED      |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| 1.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MH15                                          |        | 161.5                                                                               | SURCHARGED      |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
| 4.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | MH16                                          |        | 10.7                                                                                | FLOOD RISK      |  |  |  |  |  |       |      |      |  |    |      |        |       |        |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |      |            |       |      |  |       |            |       |      |  |      |            |
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|                                                                       |                                               |                                                                                     |
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| EAS Transport Planning                                                |                                               | Page 18                                                                             |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | Block A, M, J3 and K/L<br>SW Drainage Network |  |
| Date 13/07/2022 22:28<br>File 20220713-Block A, M J3 ...              | Designed by EAS<br>Checked by                 |                                                                                     |
| Innovyze                                                              | Network 2020.1.3                              |                                                                                     |

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

| PN    | US/MH Name   | Event                            | US/CL (m) | Water Level (m) | Surcharged Depth (m) | Flooded Volume (m <sup>3</sup> ) |
|-------|--------------|----------------------------------|-----------|-----------------|----------------------|----------------------------------|
| 4.001 | MH17         | 120 minute 100 year Winter I+45% | 3.525     | 3.385           | 1.321                | 0.000                            |
| 4.002 | MH18         | 120 minute 100 year Winter I+45% | 4.050     | 3.384           | 1.399                | 0.000                            |
| 4.003 | MH19         | 120 minute 100 year Winter I+45% | 4.050     | 3.381           | 1.466                | 0.000                            |
| 4.004 | MH20         | 120 minute 100 year Winter I+45% | 4.050     | 3.379           | 1.493                | 0.000                            |
| 4.005 | MH21         | 120 minute 100 year Winter I+45% | 4.050     | 3.376           | 1.551                | 0.000                            |
| 5.000 | MH22         | 120 minute 100 year Winter I+45% | 3.525     | 3.413           | 0.888                | 0.000                            |
| 5.001 | MH23         | 120 minute 100 year Winter I+45% | 3.525     | 3.412           | 0.925                | 0.000                            |
| 5.002 | MH24         | 120 minute 100 year Winter I+45% | 3.525     | 3.410           | 1.002                | 0.000                            |
| 5.003 | MH25         | 120 minute 100 year Winter I+45% | 4.000     | 3.410           | 1.016                | 0.000                            |
| 6.000 | MH26         | 120 minute 100 year Winter I+45% | 3.525     | 3.411           | 0.934                | 0.000                            |
| 6.001 | MH27         | 120 minute 100 year Winter I+45% | 3.525     | 3.409           | 1.025                | 0.000                            |
| 5.004 | MH28         | 120 minute 100 year Winter I+45% | 3.550     | 3.407           | 1.077                | 0.000                            |
| 5.005 | MH29         | 120 minute 100 year Winter I+45% | 3.525     | 3.404           | 1.101                | 0.000                            |
| 5.006 | MH30         | 120 minute 100 year Winter I+45% | 4.000     | 3.398           | 1.391                | 0.000                            |
| 5.007 | MH31         | 120 minute 100 year Winter I+45% | 4.050     | 3.391           | 1.476                | 0.000                            |
| 5.008 | MH32         | 120 minute 100 year Winter I+45% | 4.050     | 3.386           | 1.511                | 0.000                            |
| 5.009 | MH33         | 120 minute 100 year Winter I+45% | 4.050     | 3.378           | 1.566                | 0.000                            |
| 4.006 | MH34         | 120 minute 100 year Winter I+45% | 4.050     | 3.371           | 1.601                | 0.000                            |
| 1.008 | MH35         | 120 minute 100 year Winter I+45% | 4.050     | 3.365           | 1.615                | 0.000                            |
| 1.009 | PUMP AND GEO | 120 minute 100 year Winter I+45% | 4.050     | 3.353           | 2.570                | 0.000                            |
| 1.010 | MH36         | 480 minute 100 year Winter I+45% | 4.050     | 2.141           | -0.194               | 0.000                            |
| 1.011 | SW-A-07      | 480 minute 100 year Winter I+45% | 4.050     | 1.666           | 0.007                | 0.000                            |

| PN    | US/MH Name   | Maximum Vol (m <sup>3</sup> ) | Half Drain Time (mins) | Pipe Flow (l/s) | Status     |
|-------|--------------|-------------------------------|------------------------|-----------------|------------|
| 4.001 | MH17         | 7.310                         |                        | 20.8            | FLOOD RISK |
| 4.002 | MH18         | 8.174                         |                        | 30.6            | SURCHARGED |
| 4.003 | MH19         | 7.933                         |                        | 40.4            | SURCHARGED |
| 4.004 | MH20         | 6.030                         |                        | 50.3            | SURCHARGED |
| 4.005 | MH21         | 7.734                         |                        | 60.1            | SURCHARGED |
| 5.000 | MH22         | 3.391                         |                        | 10.0            | FLOOD RISK |
| 5.001 | MH23         | 4.997                         |                        | 19.3            | FLOOD RISK |
| 5.002 | MH24         | 7.135                         |                        | 28.4            | FLOOD RISK |
| 5.003 | MH25         | 4.099                         |                        | 38.4            | SURCHARGED |
| 6.000 | MH26         | 1.390                         |                        | 10.3            | FLOOD RISK |
| 6.001 | MH27         | 2.398                         |                        | 20.3            | FLOOD RISK |
| 5.004 | MH28         | 6.671                         |                        | 67.8            | FLOOD RISK |
| 5.005 | MH29         | 5.238                         |                        | 76.2            | FLOOD RISK |
| 5.006 | MH30         | 7.631                         |                        | 84.7            | SURCHARGED |
| 5.007 | MH31         | 8.992                         |                        | 93.7            | SURCHARGED |
| 5.008 | MH32         | 6.599                         |                        | 103.0           | SURCHARGED |
| 5.009 | MH33         | 7.853                         |                        | 113.0           | SURCHARGED |
| 4.006 | MH34         | 9.263                         |                        | 183.2           | SURCHARGED |
| 1.008 | MH35         | 8.630                         |                        | 344.1           | SURCHARGED |
| 1.009 | PUMP AND GEO | 500.184                       | 133                    | 65.0            | SURCHARGED |

|                                                                       |                                               |                                                                                     |
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| EAS Transport Planning                                                |                                               | Page 19                                                                             |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | Block A, M, J3 and K/L<br>SW Drainage Network |  |
| Date 13/07/2022 22:28<br>File 20220713-Block A, M J3 ...              | Designed by EAS<br>Checked by                 |                                                                                     |
| Innovyze<br>Network 2020.1.3                                          |                                               |                                                                                     |

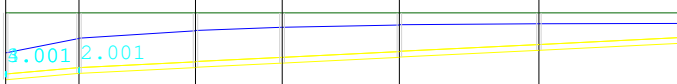
  

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

| PN    | US/MH<br>Name | Maximum<br>Vol (m³) | Half Drain<br>Time<br>(mins) | Pipe<br>Flow<br>(l/s) | Status     |
|-------|---------------|---------------------|------------------------------|-----------------------|------------|
| 1.010 | MH36          | 0.168               |                              | 65.0                  | OK         |
| 1.011 | SW-A-07       | 1.726               |                              | 65.0                  | SURCHARGED |

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|                                                                       |  |                               |                                                                                     |
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| EAS Transport Planning                                                |  |                               | Page 1                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |  | BLOCK B<br>SW NETWORK         |  |
| Date 12/07/2022 19:48<br>File 20220712-Block B - Surf...              |  | Designed by EAS<br>Checked by |                                                                                     |
| Innovyze                                                              |  | Network 2020.1.3              |                                                                                     |

| MH Name          | B11   |                                                                                                          | B05    |       | B03    | B02    | B01    |       |  |
|------------------|-------|----------------------------------------------------------------------------------------------------------|--------|-------|--------|--------|--------|-------|--|
| Hor Scale 1000   |       |                        |        |       |        |        |        |       |  |
| Ver Scale 200    |       |                                                                                                          |        |       |        |        |        |       |  |
| Datum (m) 0.000  |       |                                                                                                          |        |       |        |        |        |       |  |
| PN               |       |                                                                                                          | 1.004  |       | 1.002  | 1.001  | 1.000  |       |  |
| Dia (mm)         |       |                                                                                                          | 150    |       | 150    | 150    | 150    |       |  |
| Slope (1:X)      |       |                                                                                                          | 100.0  |       | 100.0  | 100.0  | 100.0  |       |  |
| Cover Level (m)  | 5.400 | 5.400                                                                                                    | 5.400  | 5.400 | 5.400  | 5.400  | 5.400  | 5.400 |  |
| Invert Level (m) |       | 3.631<br>3.803<br>3.803<br>3.957<br>3.957<br>4.072<br>4.072<br>4.227<br>4.227<br>4.412<br>4.412<br>4.600 |        |       |        |        |        |       |  |
| Length (m)       |       |                                                                                                          | 15.400 |       | 15.500 | 18.500 | 18.800 |       |  |

| MH Name                                                    | AW-0452 | ADOPT                                                                                | ADOPT  |       |       |       |       |       |       | B11   |        |       |       |       |
|------------------------------------------------------------|---------|--------------------------------------------------------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| Hor Scale 1000<br><br>Ver Scale 200<br><br>Datum (m)-1.000 |         |  |        |       |       |       |       |       |       |       |        |       |       |       |
|                                                            |         |                                                                                      |        |       |       |       |       |       |       |       |        |       |       |       |
|                                                            |         |                                                                                      |        |       |       |       |       |       |       |       |        |       |       |       |
| PN                                                         |         | 1.014                                                                                | 1.013  |       |       |       |       |       |       | 1.006 |        |       |       |       |
| Dia (mm)                                                   |         | 150                                                                                  | 150    |       |       |       |       |       |       | 225   |        |       |       |       |
| Slope (1:X)                                                |         | 79.5                                                                                 | 78.1   |       |       |       |       |       |       | 150.4 |        |       |       |       |
| Cover Level (m)                                            | 5.000   | 5.000                                                                                | 5.000  | 5.000 | 5.000 | 5.000 | 5.400 | 5.400 | 5.400 | 5.400 | 5.400  |       |       |       |
| Invert Level (m)                                           |         | 2.235                                                                                | 2.445  | 2.445 | 2.605 | 2.605 | 2.800 | 3.359 | 3.375 | 3.434 | 3.450  | 3.510 | 3.510 | 3.631 |
| Length (m)                                                 |         | 16.700                                                                               | 12.500 |       |       |       |       |       |       |       | 18.200 |       |       |       |

|                                                                       |                               |                                                                                     |
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| EAS Transport Planning                                                |                               | Page 2                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | BLOCK B<br>SW NETWORK         |  |
| Date 12/07/2022 19:48<br>File 20220712-Block B - Surf...              | Designed by EAS<br>Checked by |                                                                                     |
| Innovyze                                                              | Network 2020.1.3              |                                                                                     |

| MH Name          | ADOPT |       |  |
|------------------|-------|-------|--|
| Hor Scale 1000   |       |       |  |
| Ver Scale 200    |       |       |  |
| Datum (m)-1.000  |       |       |  |
| PN               |       |       |  |
| Dia (mm)         |       |       |  |
| Slope (1:X)      |       |       |  |
| Cover Level (m)  | 5.000 | 5.000 |  |
| Invert Level (m) | 2.093 | 2.160 |  |
| Length (m)       |       |       |  |

| MH Name          | B08    | B07    | B06   |       |
|------------------|--------|--------|-------|-------|
| Hor Scale 1000   |        |        |       |       |
| Ver Scale 200    |        |        |       |       |
| Datum (m)0.000   |        |        |       |       |
| PN               | 2.001  | 2.000  |       |       |
| Dia (mm)         | 150    | 150    |       |       |
| Slope (1:X)      | 30.2   | 100.0  |       |       |
| Cover Level (m)  | 5.400  | 5.400  | 5.400 |       |
| Invert Level (m) | 3.803  | 4.418  | 4.418 | 4.600 |
| Length (m)       | 18.600 | 18.200 |       |       |

|                                                                       |                               |                                                                                     |
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| EAS Transport Planning                                                |                               | Page 3                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | BLOCK B<br>SW NETWORK         |  |
| Date 12/07/2022 19:48<br>File 20220712-Block B - Surf...              | Designed by EAS<br>Checked by |                                                                                     |
| Innovyze                                                              | Network 2020.1.3              |                                                                                     |

| MH Name          | B11                                                                               | B10    |       |
|------------------|-----------------------------------------------------------------------------------|--------|-------|
| Hor Scale 1000   |  |        |       |
| Ver Scale 200    |                                                                                   |        |       |
| Datum (m) 0.000  |                                                                                   |        |       |
| PN               |                                                                                   | 3.001  |       |
| Dia (mm)         |                                                                                   | 150    |       |
| Slope (1:X)      |                                                                                   | 14.8   |       |
| Cover Level (m)  | 5.400                                                                             | 5.400  | 5.400 |
| Invert Level (m) | 3.706                                                                             | 4.530  | 4.600 |
| Length (m)       |                                                                                   | 12.200 |       |

| MH Name          | B11                                                                                 |       |       |
|------------------|-------------------------------------------------------------------------------------|-------|-------|
| Hor Scale 1000   |  |       |       |
| Ver Scale 200    |                                                                                     |       |       |
| Datum (m) 0.000  |                                                                                     |       |       |
| PN               |                                                                                     |       |       |
| Dia (mm)         |                                                                                     |       |       |
| Slope (1:X)      |                                                                                     |       |       |
| Cover Level (m)  | 5.400                                                                               | 5.400 | 5.400 |
| Invert Level (m) | 4.750                                                                               | 4.750 | 4.875 |
| Length (m)       |                                                                                     |       |       |

|                                                                       |                               |                                                                                     |
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| EAS Transport Planning                                                |                               | Page 4                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | BLOCK B<br>SW NETWORK         |  |
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| Innovyze                                                              | Network 2020.1.3              |                                                                                     |

| MH Name          | B15                                                                               |       |  |
|------------------|-----------------------------------------------------------------------------------|-------|--|
| Hor Scale 1000   |  |       |  |
| Ver Scale 200    |                                                                                   |       |  |
| Datum (m) 0.000  |                                                                                   |       |  |
| PN               |                                                                                   |       |  |
| Dia (mm)         |                                                                                   |       |  |
| Slope (1:X)      |                                                                                   |       |  |
| Cover Level (m)  | 5.400                                                                             | 5.400 |  |
| Invert Level (m) |                                                                                   | 4.000 |  |
| Length (m)       |                                                                                   |       |  |

| MH Name          | GEO AND HYDRO                                                                       |       |       |
|------------------|-------------------------------------------------------------------------------------|-------|-------|
| Hor Scale 1000   |  |       |       |
| Ver Scale 200    |                                                                                     |       |       |
| Datum (m) -1.000 |                                                                                     |       |       |
| PN               |                                                                                     |       |       |
| Dia (mm)         |                                                                                     |       |       |
| Slope (1:X)      |                                                                                     |       |       |
| Cover Level (m)  | 5.000                                                                               | 5.000 | 5.000 |
| Invert Level (m) | 4.350                                                                               | 4.350 | 4.450 |
| Length (m)       |                                                                                     |       |       |

EAS Transport Planning

Unit 23, The Maltings  
Stanstead Abbotts  
Hertfordshire, SG12 8HG

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BLOCK B  
SW NETWORK

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Network 2020.1.3

Page 1



Existing Network Details for Storm

\* - Indicates pipe has been modified outside of System 1

| PN      | Length<br>(m) | Fall<br>(m) | Slope<br>(1:X) | I.Area<br>(ha) | T.E.<br>(mins) | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) | Section      | Type |
|---------|---------------|-------------|----------------|----------------|----------------|-----------|-------------|-------------|--------------|------|
| * 1.000 | 18.800        | 0.188       | 100.0          | 0.007          | 3.00           | 0.600     | o           | 150         | Pipe/Conduit |      |
| * 1.001 | 18.500        | 0.185       | 100.0          | 0.007          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |      |
| * 1.002 | 15.500        | 0.155       | 100.0          | 0.007          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |      |
| * 1.003 | 11.500        | 0.115       | 100.0          | 0.007          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |      |
| * 1.004 | 15.400        | 0.154       | 100.0          | 0.008          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |      |
| * 2.000 | 18.200        | 0.182       | 100.0          | 0.008          | 3.00           | 0.600     | o           | 150         | Pipe/Conduit |      |
| * 2.001 | 18.600        | 0.615       | 30.2           | 0.008          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |      |
| * 1.005 | 9.700         | 0.172       | 56.4           | 0.008          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |      |
| * 3.000 | 5.600         | 0.070       | 80.0           | 0.007          | 3.00           | 0.600     | o           | 150         | Pipe/Conduit |      |
| * 3.001 | 12.200        | 0.824       | 14.8           | 0.007          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |      |
| * 4.000 | 10.000        | 0.125       | 80.0           | 0.000          | 3.00           | 0.600     | o           | 150         | Pipe/Conduit |      |
| * 4.001 | 5.000         | 1.044       | 4.8            | 0.048          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |      |
| * 1.006 | 18.200        | 0.121       | 150.4          | 0.007          | 0.00           | 0.600     | o           | 225         | Pipe/Conduit |      |
| * 1.007 | 8.800         | 0.060       | 146.7          | 0.007          | 0.00           | 0.600     | o           | 225         | Pipe/Conduit |      |
| * 1.008 | 2.400         | 0.016       | 150.0          | 0.007          | 0.00           | 0.600     | o           | 225         | Pipe/Conduit |      |

| PN      | US/MH<br>Name | US/CL<br>(m) | US/IL<br>(m) | US<br>C.Depth<br>(m) | DS/CL<br>(m) | DS/IL<br>(m) | DS<br>C.Depth<br>(m) | Ctrl    | US/MH<br>(mm) |
|---------|---------------|--------------|--------------|----------------------|--------------|--------------|----------------------|---------|---------------|
| * 1.000 | B01           | 5.400        | 4.600        | 0.650                | 5.400        | 4.412        | 0.838                |         | 600           |
| * 1.001 | B02           | 5.400        | 4.412        | 0.838                | 5.400        | 4.227        | 1.023                |         | 600           |
| * 1.002 | B03           | 5.400        | 4.227        | 1.023                | 5.400        | 4.072        | 1.178                |         | 600           |
| * 1.003 | B04           | 5.400        | 4.072        | 1.178                | 5.400        | 3.957        | 1.293                |         | 600           |
| * 1.004 | B05           | 5.400        | 3.957        | 1.293                | 5.400        | 3.803        | 1.447                |         | 600           |
| * 2.000 | B06           | 5.400        | 4.600        | 0.650                | 5.400        | 4.418        | 0.832                |         | 600           |
| * 2.001 | B07           | 5.400        | 4.418        | 0.832                | 5.400        | 3.803        | 1.447                |         | 600           |
| * 1.005 | B08           | 5.400        | 3.803        | 1.447                | 5.400        | 3.631        | 1.619                |         | 600           |
| * 3.000 | B09           | 5.400        | 4.600        | 0.650                | 5.400        | 4.530        | 0.720                |         | 600           |
| * 3.001 | B10           | 5.400        | 4.530        | 0.720                | 5.400        | 3.706        | 1.544                |         | 600           |
| * 4.000 | DUMMY         | 5.400        | 4.875        | 0.375                | 5.400        | 4.750        | 0.500                |         | 600           |
| * 4.001 | B-PP1         | 5.400        | 4.750        | 0.500                | 5.400        | 3.706        | 1.544                | Orifice | 600           |
| * 1.006 | B11           | 5.400        | 3.631        | 1.544                | 5.400        | 3.510        | 1.665                |         | 600           |
| * 1.007 | B12           | 5.400        | 3.510        | 1.665                | 5.400        | 3.450        | 1.725                |         | 600           |
| * 1.008 | B13           | 5.400        | 3.450        | 1.725                | 5.400        | 3.434        | 1.741                |         | 600           |

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| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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|             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                 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---------|------|---------------|---------|-----|-------|-------|-------|-------|-------|-------|--|-----|---------|-----|-------|-------|-------|-------|-------|-------|--|-----|---------|-----|-------|-------|-------|-------|-------|-------|--|-----|---------|-----|-------|-------|-------|-------|-------|-------|--|------|---------|-------|-------|-------|-------|-------|-------|-------|--|-----|---------|-------|-------|-------|-------|-------|-------|-------|---------|-----|---------|---------------|-------|-------|-------|-------|-------|-------|--------------|------|---------|-------|-------|-------|-------|-------|-------|-------|--|------|---------|-------|-------|-------|-------|-------|-------|-------|--|------|---------|---------|-------|-------|-------|-------|-------|-------|--|------|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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   |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |     |         |       |       |       |       |       |       |       |         |     |         |               |       |       |       |       |       |       |              |      |         |       |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| Date 12/07/2022 19:47<br>File 20220712-Block B - Surf...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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|             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                 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| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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|             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                 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| <p style="text-align: center;"><u>Existing Network Details for Storm</u></p> <table><tr><th>PN</th><th>Length<br/>(m)</th><th>Fall<br/>(m)</th><th>Slope<br/>(1:X)</th><th>I.Area<br/>(ha)</th><th>T.E.<br/>(mins)</th><th>k<br/>(mm)</th><th>HYD<br/>SECT</th><th>DIA<br/>(mm)</th><th>Section</th><th>Type</th></tr><tr><td>* 5.000</td><td>6.700</td><td>0.491</td><td>13.6</td><td>0.007</td><td>3.00</td><td>0.600</td><td>o</td><td>150</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 1.009</td><td>8.800</td><td>0.059</td><td>149.2</td><td>0.000</td><td>0.00</td><td>0.600</td><td>o</td><td>225</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 1.010</td><td>2.400</td><td>0.016</td><td>150.0</td><td>0.000</td><td>0.00</td><td>0.600</td><td>o</td><td>225</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 1.011</td><td>4.000</td><td>0.129</td><td>31.0</td><td>0.000</td><td>0.00</td><td>0.600</td><td>o</td><td>225</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 6.000</td><td>10.000</td><td>0.100</td><td>100.0</td><td>0.000</td><td>5.00</td><td>0.600</td><td>o</td><td>150</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 6.001</td><td>5.000</td><td>0.460</td><td>10.9</td><td>0.015</td><td>0.00</td><td>0.600</td><td>o</td><td>150</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 1.012</td><td>7.700</td><td>0.195</td><td>39.5</td><td>0.000</td><td>0.00</td><td>0.600</td><td>o</td><td>150</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 1.013</td><td>12.500</td><td>0.160</td><td>78.1</td><td>0.000</td><td>0.00</td><td>0.600</td><td>o</td><td>150</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 1.014</td><td>16.700</td><td>0.210</td><td>79.5</td><td>0.000</td><td>0.00</td><td>0.600</td><td>o</td><td>150</td><td>Pipe/Conduit</td><td></td></tr><tr><td>* 1.015</td><td>10.000</td><td>0.067</td><td>149.3</td><td>0.000</td><td>0.00</td><td>0.600</td><td>o</td><td>225</td><td>Pipe/Conduit</td><td></td></tr></table> <table><tr><th>PN</th><th>US/MH<br/>Name</th><th>US/CL<br/>(m)</th><th>US/IL<br/>(m)</th><th>US<br/>C.Depth<br/>(m)</th><th>DS/CL<br/>(m)</th><th>DS/IL<br/>(m)</th><th>DS<br/>C.Depth<br/>(m)</th><th>Ctrl</th><th>US/MH<br/>(mm)</th></tr><tr><td>* 5.000</td><td>B14</td><td>5.400</td><td>4.000</td><td>1.250</td><td>5.400</td><td>3.509</td><td>1.741</td><td></td><td>600</td></tr><tr><td>* 1.009</td><td>B15</td><td>5.400</td><td>3.434</td><td>1.741</td><td>5.000</td><td>3.375</td><td>1.400</td><td></td><td>600</td></tr><tr><td>* 1.010</td><td>B16</td><td>5.000</td><td>3.375</td><td>1.400</td><td>5.000</td><td>3.359</td><td>1.416</td><td></td><td>600</td></tr><tr><td>* 1.011</td><td>B17</td><td>5.000</td><td>3.359</td><td>1.416</td><td>5.000</td><td>3.230</td><td>1.545</td><td></td><td>1200</td></tr><tr><td>* 6.000</td><td>DUMMY</td><td>5.000</td><td>4.450</td><td>0.400</td><td>5.000</td><td>4.350</td><td>0.500</td><td></td><td>600</td></tr><tr><td>* 6.001</td><td>B-PP2</td><td>5.000</td><td>4.350</td><td>0.500</td><td>5.000</td><td>3.890</td><td>0.960</td><td>Orifice</td><td>600</td></tr><tr><td>* 1.012</td><td>GEO AND HYDRO</td><td>5.000</td><td>2.800</td><td>2.050</td><td>5.000</td><td>2.605</td><td>2.245</td><td>Hydro-Brake®</td><td>1200</td></tr><tr><td>* 1.013</td><td>ADOPT</td><td>5.000</td><td>2.605</td><td>2.245</td><td>5.000</td><td>2.445</td><td>2.405</td><td></td><td>1200</td></tr><tr><td>* 1.014</td><td>ADOPT</td><td>5.000</td><td>2.445</td><td>2.405</td><td>5.000</td><td>2.235</td><td>2.615</td><td></td><td>1200</td></tr><tr><td>* 1.015</td><td>AW-0452</td><td>5.000</td><td>2.160</td><td>2.615</td><td>5.000</td><td>2.093</td><td>2.682</td><td></td><td>1200</td></tr></table> |               |              |                |                      |                               |              |                      |              |               |                                                                                     |  | PN | Length<br>(m) | Fall<br>(m) | Slope<br>(1:X) | I.Area<br>(ha) | T.E.<br>(mins) | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) | Section | Type | * 5.000 | 6.700 | 0.491 | 13.6 | 0.007 | 3.00 | 0.600 | o | 150 | Pipe/Conduit |  | * 1.009 | 8.800 | 0.059 | 149.2 | 0.000 | 0.00 | 0.600 | o | 225 | Pipe/Conduit |  | * 1.010 | 2.400 | 0.016 | 150.0 | 0.000 | 0.00 | 0.600 | o | 225 | Pipe/Conduit |  | * 1.011 | 4.000 | 0.129 | 31.0 | 0.000 | 0.00 | 0.600 | o | 225 | Pipe/Conduit |  | * 6.000 | 10.000 | 0.100 | 100.0 | 0.000 | 5.00 | 0.600 | o | 150 | Pipe/Conduit |  | * 6.001 | 5.000 | 0.460 | 10.9 | 0.015 | 0.00 | 0.600 | o | 150 | Pipe/Conduit |  | * 1.012 | 7.700 | 0.195 | 39.5 | 0.000 | 0.00 | 0.600 | o | 150 | Pipe/Conduit |  | * 1.013 | 12.500 | 0.160 | 78.1 | 0.000 | 0.00 | 0.600 | o | 150 | Pipe/Conduit |  | * 1.014 | 16.700 | 0.210 | 79.5 | 0.000 | 0.00 | 0.600 | o | 150 | Pipe/Conduit |  | * 1.015 | 10.000 | 0.067 | 149.3 | 0.000 | 0.00 | 0.600 | o | 225 | Pipe/Conduit |  | PN | US/MH<br>Name | US/CL<br>(m) | US/IL<br>(m) | US<br>C.Depth<br>(m) | DS/CL<br>(m) | DS/IL<br>(m) | DS<br>C.Depth<br>(m) | Ctrl | US/MH<br>(mm) | * 5.000 | B14 | 5.400 | 4.000 | 1.250 | 5.400 | 3.509 | 1.741 |  | 600 | * 1.009 | B15 | 5.400 | 3.434 | 1.741 | 5.000 | 3.375 | 1.400 |  | 600 | * 1.010 | B16 | 5.000 | 3.375 | 1.400 | 5.000 | 3.359 | 1.416 |  | 600 | * 1.011 | B17 | 5.000 | 3.359 | 1.416 | 5.000 | 3.230 | 1.545 |  | 1200 | * 6.000 | DUMMY | 5.000 | 4.450 | 0.400 | 5.000 | 4.350 | 0.500 |  | 600 | * 6.001 | B-PP2 | 5.000 | 4.350 | 0.500 | 5.000 | 3.890 | 0.960 | Orifice | 600 | * 1.012 | GEO AND HYDRO | 5.000 | 2.800 | 2.050 | 5.000 | 2.605 | 2.245 | Hydro-Brake® | 1200 | * 1.013 | ADOPT | 5.000 | 2.605 | 2.245 | 5.000 | 2.445 | 2.405 |  | 1200 | * 1.014 | ADOPT | 5.000 | 2.445 | 2.405 | 5.000 | 2.235 | 2.615 |  | 1200 | * 1.015 | AW-0452 | 5.000 | 2.160 | 2.615 | 5.000 | 2.093 | 2.682 |  | 1200 |
| PN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Length<br>(m) | Fall<br>(m)  | Slope<br>(1:X) | I.Area<br>(ha)       | T.E.<br>(mins)                | k<br>(mm)    | HYD<br>SECT          | DIA<br>(mm)  | Section       | Type                                                                                |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |     |         |       |       |       |       |       |       |       |         |     |         |               |       |       |       |       |       |       |              |      |         |       |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| * 5.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6.700         | 0.491        | 13.6           | 0.007                | 3.00                          | 0.600        | o                    | 150          | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                 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| * 1.009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 8.800         | 0.059        | 149.2          | 0.000                | 0.00                          | 0.600        | o                    | 225          | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                 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| * 1.010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2.400         | 0.016        | 150.0          | 0.000                | 0.00                          | 0.600        | o                    | 225          | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                 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| * 1.011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4.000         | 0.129        | 31.0           | 0.000                | 0.00                          | 0.600        | o                    | 225          | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                 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| * 6.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10.000        | 0.100        | 100.0          | 0.000                | 5.00                          | 0.600        | o                    | 150          | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                 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| * 6.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.000         | 0.460        | 10.9           | 0.015                | 0.00                          | 0.600        | o                    | 150          | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                 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| * 1.012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7.700         | 0.195        | 39.5           | 0.000                | 0.00                          | 0.600        | o                    | 150          | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                 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| * 1.013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 12.500        | 0.160        | 78.1           | 0.000                | 0.00                          | 0.600        | o                    | 150          | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                 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| * 1.014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 16.700        | 0.210        | 79.5           | 0.000                | 0.00                          | 0.600        | o                    | 150          | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                 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| * 1.015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10.000        | 0.067        | 149.3          | 0.000                | 0.00                          | 0.600        | o                    | 225          | Pipe/Conduit  |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                 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| PN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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|             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                 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| * 5.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | B14           | 5.400        | 4.000          | 1.250                | 5.400                         | 3.509        | 1.741                |              | 600           |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                 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| * 1.009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | B15           | 5.400        | 3.434          | 1.741                | 5.000                         | 3.375        | 1.400                |              | 600           |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |     |         |       |       |       |       |       |       |       |         |     |         |               |       |       |       |       |       |       |              |      |         |       |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| * 1.010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | B16           | 5.000        | 3.375          | 1.400                | 5.000                         | 3.359        | 1.416                |              | 600           |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |     |         |       |       |       |       |       |       |       |         |     |         |               |       |       |       |       |       |       |              |      |         |       |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| * 1.011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | B17           | 5.000        | 3.359          | 1.416                | 5.000                         | 3.230        | 1.545                |              | 1200          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |     |         |       |       |       |       |       |       |       |         |     |         |               |       |       |       |       |       |       |              |      |         |       |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| * 6.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | DUMMY         | 5.000        | 4.450          | 0.400                | 5.000                         | 4.350        | 0.500                |              | 600           |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |     |         |       |       |       |       |       |       |       |         |     |         |               |       |       |       |       |       |       |              |      |         |       |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| * 6.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | B-PP2         | 5.000        | 4.350          | 0.500                | 5.000                         | 3.890        | 0.960                | Orifice      | 600           |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                 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| * 1.012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | GEO AND HYDRO | 5.000        | 2.800          | 2.050                | 5.000                         | 2.605        | 2.245                | Hydro-Brake® | 1200          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |     |         |       |       |       |       |       |       |       |         |     |         |               |       |       |       |       |       |       |              |      |         |       |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| * 1.013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ADOPT         | 5.000        | 2.605          | 2.245                | 5.000                         | 2.445        | 2.405                |              | 1200          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                 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| * 1.014                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ADOPT         | 5.000        | 2.445          | 2.405                | 5.000                         | 2.235        | 2.615                |              | 1200          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |     |         |       |       |       |       |       |       |       |         |     |         |               |       |       |       |       |       |       |              |      |         |       |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| * 1.015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | AW-0452       | 5.000        | 2.160          | 2.615                | 5.000                         | 2.093        | 2.682                |              | 1200          |                                                                                     |  |    |               |             |                |                |                |           |             |             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |     |         |       |       |       |       |       |       |       |         |     |         |               |       |       |       |       |       |       |              |      |         |       |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |
| ©1982-2020 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|             |         |      |         |       |       |      |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |       |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |      |       |      |       |   |     |              |  |         |        |       |       |       |      |       |   |     |              |  |    |               |              |              |                      |              |              |                      |      |               |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |     |         |     |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |     |         |       |       |       |       |       |       |       |         |     |         |               |       |       |       |       |       |       |              |      |         |       |       |       |       |       |       |       |  |      |         |       |       |       |       |       |       |       |  |      |         |         |       |       |       |       |       |       |  |      |

| EAS Transport Planning                                                     |           |              |               |                               |       |                           |               | Page 3                                                                              |                           |
|----------------------------------------------------------------------------|-----------|--------------|---------------|-------------------------------|-------|---------------------------|---------------|-------------------------------------------------------------------------------------|---------------------------|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG      |           |              |               | BLOCK B<br>SW NETWORK         |       |                           |               |  |                           |
| Date 12/07/2022 19:47<br>File 20220712-Block B - Surf...                   |           |              |               | Designed by EAS<br>Checked by |       |                           |               |                                                                                     |                           |
| Innovyze                                                                   |           |              |               | Network 2020.1.3              |       |                           |               |                                                                                     |                           |
| Manhole Schedules for Storm                                                |           |              |               |                               |       |                           |               |                                                                                     |                           |
| MH Name                                                                    | MH CL (m) | MH Depth (m) | MH Connection | MH Diam., L*W (mm)            | PN    | Pipe Out Invert Level (m) | Diameter (mm) | PN                                                                                  | Pipes In Invert Level (m) |
| B01                                                                        | 5.400     | 0.800        | Open Manhole  | 600                           | 1.000 | 4.600                     | 150           |                                                                                     |                           |
| B02                                                                        | 5.400     | 0.988        | Open Manhole  | 600                           | 1.001 | 4.412                     | 150           | 1.000                                                                               | 4.41                      |
| B03                                                                        | 5.400     | 1.173        | Open Manhole  | 600                           | 1.002 | 4.227                     | 150           | 1.001                                                                               | 4.22                      |
| B04                                                                        | 5.400     | 1.328        | Open Manhole  | 600                           | 1.003 | 4.072                     | 150           | 1.002                                                                               | 4.07                      |
| B05                                                                        | 5.400     | 1.443        | Open Manhole  | 600                           | 1.004 | 3.957                     | 150           | 1.003                                                                               | 3.95                      |
| B06                                                                        | 5.400     | 0.800        | Open Manhole  | 600                           | 2.000 | 4.600                     | 150           |                                                                                     |                           |
| B07                                                                        | 5.400     | 0.982        | Open Manhole  | 600                           | 2.001 | 4.418                     | 150           | 2.000                                                                               | 4.41                      |
| B08                                                                        | 5.400     | 1.597        | Open Manhole  | 600                           | 1.005 | 3.803                     | 150           | 1.004                                                                               | 3.80                      |
|                                                                            |           |              |               |                               |       |                           |               | 2.001                                                                               | 3.80                      |
| B09                                                                        | 5.400     | 0.800        | Open Manhole  | 600                           | 3.000 | 4.600                     | 150           |                                                                                     |                           |
| B10                                                                        | 5.400     | 0.870        | Open Manhole  | 600                           | 3.001 | 4.530                     | 150           | 3.000                                                                               | 4.53                      |
| DUMMY                                                                      | 5.400     | 0.525        | Open Manhole  | 600                           | 4.000 | 4.875                     | 150           |                                                                                     |                           |
| B-PP1                                                                      | 5.400     | 0.650        | Open Manhole  | 600                           | 4.001 | 4.750                     | 150           | 4.000                                                                               | 4.75                      |
| B11                                                                        | 5.400     | 1.769        | Open Manhole  | 600                           | 1.006 | 3.631                     | 225           | 1.005                                                                               | 3.63                      |
|                                                                            |           |              |               |                               |       |                           |               | 3.001                                                                               | 3.70                      |
|                                                                            |           |              |               |                               |       |                           |               | 4.001                                                                               | 3.70                      |
| B12                                                                        | 5.400     | 1.890        | Open Manhole  | 600                           | 1.007 | 3.510                     | 225           | 1.006                                                                               | 3.51                      |
| B13                                                                        | 5.400     | 1.950        | Open Manhole  | 600                           | 1.008 | 3.450                     | 225           | 1.007                                                                               | 3.45                      |
| B14                                                                        | 5.400     | 1.400        | Open Manhole  | 600                           | 5.000 | 4.000                     | 150           |                                                                                     |                           |
| B15                                                                        | 5.400     | 1.966        | Open Manhole  | 600                           | 1.009 | 3.434                     | 225           | 1.008                                                                               | 3.43                      |
|                                                                            |           |              |               |                               |       |                           |               | 5.000                                                                               | 3.50                      |
| B16                                                                        | 5.000     | 1.625        | Open Manhole  | 600                           | 1.010 | 3.375                     | 225           | 1.009                                                                               | 3.37                      |
| B17                                                                        | 5.000     | 1.641        | Open Manhole  | 1200                          | 1.011 | 3.359                     | 225           | 1.010                                                                               | 3.35                      |
| DUMMY                                                                      | 5.000     | 0.550        | Open Manhole  | 600                           | 6.000 | 4.450                     | 150           |                                                                                     |                           |
| B-PP2                                                                      | 5.000     | 0.650        | Open Manhole  | 600                           | 6.001 | 4.350                     | 150           | 6.000                                                                               | 4.35                      |
| GEO AND HYDRO                                                              | 5.000     | 2.200        | Open Manhole  | 1200                          | 1.012 | 2.800                     | 150           | 1.011                                                                               | 3.23                      |
|                                                                            |           |              |               |                               |       |                           |               | 6.001                                                                               | 3.89                      |
| ADOPT                                                                      | 5.000     | 2.395        | Open Manhole  | 1200                          | 1.013 | 2.605                     | 150           | 1.012                                                                               | 2.60                      |
| ADOPT                                                                      | 5.000     | 2.555        | Open Manhole  | 1200                          | 1.014 | 2.445                     | 150           | 1.013                                                                               | 2.44                      |
| AW-0452                                                                    | 5.000     | 2.840        | Open Manhole  | 1200                          | 1.015 | 2.160                     | 225           | 1.014                                                                               | 2.23                      |
| ADOPT                                                                      | 5.000     | 2.907        | Open Manhole  | 0                             |       | OUTFALL                   |               | 1.015                                                                               | 2.09                      |
| No coordinates have been specified, layout information cannot be produced. |           |              |               |                               |       |                           |               |                                                                                     |                           |
| ©1982-2020 Innovyze                                                        |           |              |               |                               |       |                           |               |                                                                                     |                           |

|                                                                       |                               |                                                                                     |
|-----------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                |                               | Page 4                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | BLOCK B<br>SW NETWORK         |  |
| Date 12/07/2022 19:47<br>File 20220712-Block B - Surf...              | Designed by EAS<br>Checked by |                                                                                     |
| Innovyze                                                              | Network 2020.1.3              |                                                                                     |

### PIPELINE SCHEDULES for Storm

#### Upstream Manhole

| PN    | Hyd<br>Sect | Diam<br>(mm) | MH<br>Name | C.Level<br>(m) | I.Level<br>(m) | D.Depth<br>(m) | MH<br>Connection | MH DIAM.,<br>(mm) | L*W |
|-------|-------------|--------------|------------|----------------|----------------|----------------|------------------|-------------------|-----|
| 1.000 | o           | 150          | B01        | 5.400          | 4.600          | 0.650          | Open Manhole     |                   | 600 |
| 1.001 | o           | 150          | B02        | 5.400          | 4.412          | 0.838          | Open Manhole     |                   | 600 |
| 1.002 | o           | 150          | B03        | 5.400          | 4.227          | 1.023          | Open Manhole     |                   | 600 |
| 1.003 | o           | 150          | B04        | 5.400          | 4.072          | 1.178          | Open Manhole     |                   | 600 |
| 1.004 | o           | 150          | B05        | 5.400          | 3.957          | 1.293          | Open Manhole     |                   | 600 |
| 2.000 | o           | 150          | B06        | 5.400          | 4.600          | 0.650          | Open Manhole     |                   | 600 |
| 2.001 | o           | 150          | B07        | 5.400          | 4.418          | 0.832          | Open Manhole     |                   | 600 |
| 1.005 | o           | 150          | B08        | 5.400          | 3.803          | 1.447          | Open Manhole     |                   | 600 |
| 3.000 | o           | 150          | B09        | 5.400          | 4.600          | 0.650          | Open Manhole     |                   | 600 |
| 3.001 | o           | 150          | B10        | 5.400          | 4.530          | 0.720          | Open Manhole     |                   | 600 |
| 4.000 | o           | 150          | DUMMY      | 5.400          | 4.875          | 0.375          | Open Manhole     |                   | 600 |
| 4.001 | o           | 150          | B-PP1      | 5.400          | 4.750          | 0.500          | Open Manhole     |                   | 600 |
| 1.006 | o           | 225          | B11        | 5.400          | 3.631          | 1.544          | Open Manhole     |                   | 600 |
| 1.007 | o           | 225          | B12        | 5.400          | 3.510          | 1.665          | Open Manhole     |                   | 600 |
| 1.008 | o           | 225          | B13        | 5.400          | 3.450          | 1.725          | Open Manhole     |                   | 600 |

#### Downstream Manhole

| PN    | Length<br>(m) | Slope<br>(1:X) | MH<br>Name | C.Level<br>(m) | I.Level<br>(m) | D.Depth<br>(m) | MH<br>Connection | MH DIAM.,<br>(mm) | L*W |
|-------|---------------|----------------|------------|----------------|----------------|----------------|------------------|-------------------|-----|
| 1.000 | 18.800        | 100.0          | B02        | 5.400          | 4.412          | 0.838          | Open Manhole     |                   | 600 |
| 1.001 | 18.500        | 100.0          | B03        | 5.400          | 4.227          | 1.023          | Open Manhole     |                   | 600 |
| 1.002 | 15.500        | 100.0          | B04        | 5.400          | 4.072          | 1.178          | Open Manhole     |                   | 600 |
| 1.003 | 11.500        | 100.0          | B05        | 5.400          | 3.957          | 1.293          | Open Manhole     |                   | 600 |
| 1.004 | 15.400        | 100.0          | B08        | 5.400          | 3.803          | 1.447          | Open Manhole     |                   | 600 |
| 2.000 | 18.200        | 100.0          | B07        | 5.400          | 4.418          | 0.832          | Open Manhole     |                   | 600 |
| 2.001 | 18.600        | 30.2           | B08        | 5.400          | 3.803          | 1.447          | Open Manhole     |                   | 600 |
| 1.005 | 9.700         | 56.4           | B11        | 5.400          | 3.631          | 1.619          | Open Manhole     |                   | 600 |
| 3.000 | 5.600         | 80.0           | B10        | 5.400          | 4.530          | 0.720          | Open Manhole     |                   | 600 |
| 3.001 | 12.200        | 14.8           | B11        | 5.400          | 3.706          | 1.544          | Open Manhole     |                   | 600 |
| 4.000 | 10.000        | 80.0           | B-PP1      | 5.400          | 4.750          | 0.500          | Open Manhole     |                   | 600 |
| 4.001 | 5.000         | 4.8            | B11        | 5.400          | 3.706          | 1.544          | Open Manhole     |                   | 600 |
| 1.006 | 18.200        | 150.4          | B12        | 5.400          | 3.510          | 1.665          | Open Manhole     |                   | 600 |
| 1.007 | 8.800         | 146.7          | B13        | 5.400          | 3.450          | 1.725          | Open Manhole     |                   | 600 |
| 1.008 | 2.400         | 150.0          | B15        | 5.400          | 3.434          | 1.741          | Open Manhole     |                   | 600 |

|                                                                       |              |                               |                                                                                     |                  |             |             |               |                    |
|-----------------------------------------------------------------------|--------------|-------------------------------|-------------------------------------------------------------------------------------|------------------|-------------|-------------|---------------|--------------------|
| EAS Transport Planning                                                |              | Page 5                        |                                                                                     |                  |             |             |               |                    |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |              | BLOCK B<br>SW NETWORK         |  |                  |             |             |               |                    |
| Date 12/07/2022 19:47<br>File 20220712-Block B - Surf...              |              | Designed by EAS<br>Checked by |                                                                                     |                  |             |             |               |                    |
| Innovyze                                                              |              | Network 2020.1.3              |                                                                                     |                  |             |             |               |                    |
| PIPELINE SCHEDULES for Storm                                          |              |                               |                                                                                     |                  |             |             |               |                    |
| Upstream Manhole                                                      |              |                               |                                                                                     |                  |             |             |               |                    |
| PN                                                                    | Hyd Sect     | Diam (mm)                     | MH Name                                                                             | C.Level (m)      | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., L*W (mm) |
| 5.000                                                                 | o            | 150                           | B14                                                                                 | 5.400            | 4.000       | 1.250       | Open Manhole  | 600                |
| 1.009                                                                 | o            | 225                           | B15                                                                                 | 5.400            | 3.434       | 1.741       | Open Manhole  | 600                |
| 1.010                                                                 | o            | 225                           | B16                                                                                 | 5.000            | 3.375       | 1.400       | Open Manhole  | 600                |
| 1.011                                                                 | o            | 225                           | B17                                                                                 | 5.000            | 3.359       | 1.416       | Open Manhole  | 1200               |
| 6.000                                                                 | o            | 150                           | DUMMY                                                                               | 5.000            | 4.450       | 0.400       | Open Manhole  | 600                |
| 6.001                                                                 | o            | 150                           | B-PP2                                                                               | 5.000            | 4.350       | 0.500       | Open Manhole  | 600                |
| 1.012                                                                 | o            | 150                           | GEO AND HYDRO                                                                       | 5.000            | 2.800       | 2.050       | Open Manhole  | 1200               |
| 1.013                                                                 | o            | 150                           | ADOPT                                                                               | 5.000            | 2.605       | 2.245       | Open Manhole  | 1200               |
| 1.014                                                                 | o            | 150                           | ADOPT                                                                               | 5.000            | 2.445       | 2.405       | Open Manhole  | 1200               |
| 1.015                                                                 | o            | 225                           | AW-0452                                                                             | 5.000            | 2.160       | 2.615       | Open Manhole  | 1200               |
| Downstream Manhole                                                    |              |                               |                                                                                     |                  |             |             |               |                    |
| PN                                                                    | Length (m)   | Slope (1:X)                   | MH Name                                                                             | C.Level (m)      | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., L*W (mm) |
| 5.000                                                                 | 6.700        | 13.6                          | B15                                                                                 | 5.400            | 3.509       | 1.741       | Open Manhole  | 600                |
| 1.009                                                                 | 8.800        | 149.2                         | B16                                                                                 | 5.000            | 3.375       | 1.400       | Open Manhole  | 600                |
| 1.010                                                                 | 2.400        | 150.0                         | B17                                                                                 | 5.000            | 3.359       | 1.416       | Open Manhole  | 1200               |
| 1.011                                                                 | 4.000        | 31.0                          | GEO AND HYDRO                                                                       | 5.000            | 3.230       | 1.545       | Open Manhole  | 1200               |
| 6.000                                                                 | 10.000       | 100.0                         | B-PP2                                                                               | 5.000            | 4.350       | 0.500       | Open Manhole  | 600                |
| 6.001                                                                 | 5.000        | 10.9                          | GEO AND HYDRO                                                                       | 5.000            | 3.890       | 0.960       | Open Manhole  | 1200               |
| 1.012                                                                 | 7.700        | 39.5                          | ADOPT                                                                               | 5.000            | 2.605       | 2.245       | Open Manhole  | 1200               |
| 1.013                                                                 | 12.500       | 78.1                          | ADOPT                                                                               | 5.000            | 2.445       | 2.405       | Open Manhole  | 1200               |
| 1.014                                                                 | 16.700       | 79.5                          | AW-0452                                                                             | 5.000            | 2.235       | 2.615       | Open Manhole  | 1200               |
| 1.015                                                                 | 10.000       | 149.3                         | ADOPT                                                                               | 5.000            | 2.093       | 2.682       | Open Manhole  | 0                  |
| Surcharged Outfall Details for Storm                                  |              |                               |                                                                                     |                  |             |             |               |                    |
| Outfall Pipe Number                                                   | Outfall Name | C. Level (m)                  | I. Level (m)                                                                        | Min I. Level (m) | D,L (mm)    | W (mm)      |               |                    |
| 1.015                                                                 | ADOPT        | 5.000                         | 2.093                                                                               | 0.000            | 0           | 0           |               |                    |
| Datum (m) 2.160 Offset (mins) 0                                       |              |                               |                                                                                     |                  |             |             |               |                    |
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|                                                                       |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
|-----------------------------------------------------------------------|--------------|----------------|--------------|-------------------------------|--------------|----------------|--------------|----------------|--------------|-------------------------------------------------------------------------------------|--------------|
| EAS Transport Planning                                                |              |                |              |                               |              |                |              |                |              | Page 6                                                                              |              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |              |                |              | BLOCK B<br>SW NETWORK         |              |                |              |                |              |  |              |
| Date 12/07/2022 19:47<br>File 20220712-Block B - Surf...              |              |                |              | Designed by EAS<br>Checked by |              |                |              |                |              |                                                                                     |              |
| Innovyze                                                              |              |                |              | Network 2020.1.3              |              |                |              |                |              |                                                                                     |              |
| Surcharged Outfall Details for Storm                                  |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
| Time<br>(mins)                                                        | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) |
| 1                                                                     | 0.225        | 51             | 0.225        | 101                           | 0.225        | 151            | 0.225        | 201            | 0.225        | 251                                                                                 | 0.225        |
| 2                                                                     | 0.225        | 52             | 0.225        | 102                           | 0.225        | 152            | 0.225        | 202            | 0.225        | 252                                                                                 | 0.225        |
| 3                                                                     | 0.225        | 53             | 0.225        | 103                           | 0.225        | 153            | 0.225        | 203            | 0.225        | 253                                                                                 | 0.225        |
| 4                                                                     | 0.225        | 54             | 0.225        | 104                           | 0.225        | 154            | 0.225        | 204            | 0.225        | 254                                                                                 | 0.225        |
| 5                                                                     | 0.225        | 55             | 0.225        | 105                           | 0.225        | 155            | 0.225        | 205            | 0.225        | 255                                                                                 | 0.225        |
| 6                                                                     | 0.225        | 56             | 0.225        | 106                           | 0.225        | 156            | 0.225        | 206            | 0.225        | 256                                                                                 | 0.225        |
| 7                                                                     | 0.225        | 57             | 0.225        | 107                           | 0.225        | 157            | 0.225        | 207            | 0.225        | 257                                                                                 | 0.225        |
| 8                                                                     | 0.225        | 58             | 0.225        | 108                           | 0.225        | 158            | 0.225        | 208            | 0.225        | 258                                                                                 | 0.225        |
| 9                                                                     | 0.225        | 59             | 0.225        | 109                           | 0.225        | 159            | 0.225        | 209            | 0.225        | 259                                                                                 | 0.225        |
| 10                                                                    | 0.225        | 60             | 0.225        | 110                           | 0.225        | 160            | 0.225        | 210            | 0.225        | 260                                                                                 | 0.225        |
| 11                                                                    | 0.225        | 61             | 0.225        | 111                           | 0.225        | 161            | 0.225        | 211            | 0.225        | 261                                                                                 | 0.225        |
| 12                                                                    | 0.225        | 62             | 0.225        | 112                           | 0.225        | 162            | 0.225        | 212            | 0.225        | 262                                                                                 | 0.225        |
| 13                                                                    | 0.225        | 63             | 0.225        | 113                           | 0.225        | 163            | 0.225        | 213            | 0.225        | 263                                                                                 | 0.225        |
| 14                                                                    | 0.225        | 64             | 0.225        | 114                           | 0.225        | 164            | 0.225        | 214            | 0.225        | 264                                                                                 | 0.225        |
| 15                                                                    | 0.225        | 65             | 0.225        | 115                           | 0.225        | 165            | 0.225        | 215            | 0.225        | 265                                                                                 | 0.225        |
| 16                                                                    | 0.225        | 66             | 0.225        | 116                           | 0.225        | 166            | 0.225        | 216            | 0.225        | 266                                                                                 | 0.225        |
| 17                                                                    | 0.225        | 67             | 0.225        | 117                           | 0.225        | 167            | 0.225        | 217            | 0.225        | 267                                                                                 | 0.225        |
| 18                                                                    | 0.225        | 68             | 0.225        | 118                           | 0.225        | 168            | 0.225        | 218            | 0.225        | 268                                                                                 | 0.225        |
| 19                                                                    | 0.225        | 69             | 0.225        | 119                           | 0.225        | 169            | 0.225        | 219            | 0.225        | 269                                                                                 | 0.225        |
| 20                                                                    | 0.225        | 70             | 0.225        | 120                           | 0.225        | 170            | 0.225        | 220            | 0.225        | 270                                                                                 | 0.225        |
| 21                                                                    | 0.225        | 71             | 0.225        | 121                           | 0.225        | 171            | 0.225        | 221            | 0.225        | 271                                                                                 | 0.225        |
| 22                                                                    | 0.225        | 72             | 0.225        | 122                           | 0.225        | 172            | 0.225        | 222            | 0.225        | 272                                                                                 | 0.225        |
| 23                                                                    | 0.225        | 73             | 0.225        | 123                           | 0.225        | 173            | 0.225        | 223            | 0.225        | 273                                                                                 | 0.225        |
| 24                                                                    | 0.225        | 74             | 0.225        | 124                           | 0.225        | 174            | 0.225        | 224            | 0.225        | 274                                                                                 | 0.225        |
| 25                                                                    | 0.225        | 75             | 0.225        | 125                           | 0.225        | 175            | 0.225        | 225            | 0.225        | 275                                                                                 | 0.225        |
| 26                                                                    | 0.225        | 76             | 0.225        | 126                           | 0.225        | 176            | 0.225        | 226            | 0.225        | 276                                                                                 | 0.225        |
| 27                                                                    | 0.225        | 77             | 0.225        | 127                           | 0.225        | 177            | 0.225        | 227            | 0.225        | 277                                                                                 | 0.225        |
| 28                                                                    | 0.225        | 78             | 0.225        | 128                           | 0.225        | 178            | 0.225        | 228            | 0.225        | 278                                                                                 | 0.225        |
| 29                                                                    | 0.225        | 79             | 0.225        | 129                           | 0.225        | 179            | 0.225        | 229            | 0.225        | 279                                                                                 | 0.225        |
| 30                                                                    | 0.225        | 80             | 0.225        | 130                           | 0.225        | 180            | 0.225        | 230            | 0.225        | 280                                                                                 | 0.225        |
| 31                                                                    | 0.225        | 81             | 0.225        | 131                           | 0.225        | 181            | 0.225        | 231            | 0.225        | 281                                                                                 | 0.225        |
| 32                                                                    | 0.225        | 82             | 0.225        | 132                           | 0.225        | 182            | 0.225        | 232            | 0.225        | 282                                                                                 | 0.225        |
| 33                                                                    | 0.225        | 83             | 0.225        | 133                           | 0.225        | 183            | 0.225        | 233            | 0.225        | 283                                                                                 | 0.225        |
| 34                                                                    | 0.225        | 84             | 0.225        | 134                           | 0.225        | 184            | 0.225        | 234            | 0.225        | 284                                                                                 | 0.225        |

|                                                                       |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
|-----------------------------------------------------------------------|--------------|----------------|--------------|-------------------------------|--------------|----------------|--------------|----------------|--------------|-------------------------------------------------------------------------------------|--------------|
| EAS Transport Planning                                                |              |                |              |                               |              |                |              |                |              | Page 7                                                                              |              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |              |                |              | BLOCK B<br>SW NETWORK         |              |                |              |                |              |  |              |
| Date 12/07/2022 19:47<br>File 20220712-Block B - Surf...              |              |                |              | Designed by EAS<br>Checked by |              |                |              |                |              |                                                                                     |              |
| Innovyze                                                              |              |                |              | Network 2020.1.3              |              |                |              |                |              |                                                                                     |              |
| Surcharged Outfall Details for Storm                                  |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
| Time<br>(mins)                                                        | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) |
| 301                                                                   | 0.225        | 351            | 0.225        | 401                           | 0.225        | 451            | 0.225        | 501            | 0.225        | 551                                                                                 | 0.225        |
| 302                                                                   | 0.225        | 352            | 0.225        | 402                           | 0.225        | 452            | 0.225        | 502            | 0.225        | 552                                                                                 | 0.225        |
| 303                                                                   | 0.225        | 353            | 0.225        | 403                           | 0.225        | 453            | 0.225        | 503            | 0.225        | 553                                                                                 | 0.225        |
| 304                                                                   | 0.225        | 354            | 0.225        | 404                           | 0.225        | 454            | 0.225        | 504            | 0.225        | 554                                                                                 | 0.225        |
| 305                                                                   | 0.225        | 355            | 0.225        | 405                           | 0.225        | 455            | 0.225        | 505            | 0.225        | 555                                                                                 | 0.225        |
| 306                                                                   | 0.225        | 356            | 0.225        | 406                           | 0.225        | 456            | 0.225        | 506            | 0.225        | 556                                                                                 | 0.225        |
| 307                                                                   | 0.225        | 357            | 0.225        | 407                           | 0.225        | 457            | 0.225        | 507            | 0.225        | 557                                                                                 | 0.225        |
| 308                                                                   | 0.225        | 358            | 0.225        | 408                           | 0.225        | 458            | 0.225        | 508            | 0.225        | 558                                                                                 | 0.225        |
| 309                                                                   | 0.225        | 359            | 0.225        | 409                           | 0.225        | 459            | 0.225        | 509            | 0.225        | 559                                                                                 | 0.225        |
| 310                                                                   | 0.225        | 360            | 0.225        | 410                           | 0.225        | 460            | 0.225        | 510            | 0.225        | 560                                                                                 | 0.225        |
| 311                                                                   | 0.225        | 361            | 0.225        | 411                           | 0.225        | 461            | 0.225        | 511            | 0.225        | 561                                                                                 | 0.225        |
| 312                                                                   | 0.225        | 362            | 0.225        | 412                           | 0.225        | 462            | 0.225        | 512            | 0.225        | 562                                                                                 | 0.225        |
| 313                                                                   | 0.225        | 363            | 0.225        | 413                           | 0.225        | 463            | 0.225        | 513            | 0.225        | 563                                                                                 | 0.225        |
| 314                                                                   | 0.225        | 364            | 0.225        | 414                           | 0.225        | 464            | 0.225        | 514            | 0.225        | 564                                                                                 | 0.225        |
| 315                                                                   | 0.225        | 365            | 0.225        | 415                           | 0.225        | 465            | 0.225        | 515            | 0.225        | 565                                                                                 | 0.225        |
| 316                                                                   | 0.225        | 366            | 0.225        | 416                           | 0.225        | 466            | 0.225        | 516            | 0.225        | 566                                                                                 | 0.225        |
| 317                                                                   | 0.225        | 367            | 0.225        | 417                           | 0.225        | 467            | 0.225        | 517            | 0.225        | 567                                                                                 | 0.225        |
| 318                                                                   | 0.225        | 368            | 0.225        | 418                           | 0.225        | 468            | 0.225        | 518            | 0.225        | 568                                                                                 | 0.225        |
| 319                                                                   | 0.225        | 369            | 0.225        | 419                           | 0.225        | 469            | 0.225        | 519            | 0.225        | 569                                                                                 | 0.225        |
| 320                                                                   | 0.225        | 370            | 0.225        | 420                           | 0.225        | 470            | 0.225        | 520            | 0.225        | 570                                                                                 | 0.225        |
| 321                                                                   | 0.225        | 371            | 0.225        | 421                           | 0.225        | 471            | 0.225        | 521            | 0.225        | 571                                                                                 | 0.225        |
| 322                                                                   | 0.225        | 372            | 0.225        | 422                           | 0.225        | 472            | 0.225        | 522            | 0.225        | 572                                                                                 | 0.225        |
| 323                                                                   | 0.225        | 373            | 0.225        | 423                           | 0.225        | 473            | 0.225        | 523            | 0.225        | 573                                                                                 | 0.225        |
| 324                                                                   | 0.225        | 374            | 0.225        | 424                           | 0.225        | 474            | 0.225        | 524            | 0.225        | 574                                                                                 | 0.225        |
| 325                                                                   | 0.225        | 375            | 0.225        | 425                           | 0.225        | 475            | 0.225        | 525            | 0.225        | 575                                                                                 | 0.225        |
| 326                                                                   | 0.225        | 376            | 0.225        | 426                           | 0.225        | 476            | 0.225        | 526            | 0.225        | 576                                                                                 | 0.225        |
| 327                                                                   | 0.225        | 377            | 0.225        | 427                           | 0.225        | 477            | 0.225        | 527            | 0.225        | 577                                                                                 | 0.225        |
| 328                                                                   | 0.225        | 378            | 0.225        | 428                           | 0.225        | 478            | 0.225        | 528            | 0.225        | 578                                                                                 | 0.225        |
| 329                                                                   | 0.225        | 379            | 0.225        | 429                           | 0.225        | 479            | 0.225        | 529            | 0.225        | 579                                                                                 | 0.225        |
| 330                                                                   | 0.225        | 380            | 0.225        | 430                           | 0.225        | 480            | 0.225        | 530            | 0.225        | 580                                                                                 | 0.225        |
| 331                                                                   | 0.225        | 381            | 0.225        | 431                           | 0.225        | 481            | 0.225        | 531            | 0.225        | 581                                                                                 | 0.225        |
| 332                                                                   | 0.225        | 382            | 0.225        | 432                           | 0.225        | 482            | 0.225        | 532            | 0.225        | 582                                                                                 | 0.225        |
| 333                                                                   | 0.225        | 383            | 0.225        | 433                           | 0.225        | 483            | 0.225        | 533            | 0.225        | 583                                                                                 | 0.225        |
| 334                                                                   | 0.225        | 384            | 0.225        | 434                           | 0.225        | 484            | 0.225        | 534            | 0.225        | 584                                                                                 | 0.225        |
| 335                                                                   | 0.225        | 385            | 0.225        | 435                           | 0.225        | 485            | 0.225        | 535            | 0.225        | 585                                                                                 | 0.225        |
| 336                                                                   | 0.225        | 386            | 0.225        | 436                           | 0.225        | 486            | 0.225        | 536            | 0.225        | 586                                                                                 | 0.225        |
| 337                                                                   | 0.225        | 387            | 0.225        | 437                           | 0.225        | 487            | 0.225        | 537            | 0.225        | 587                                                                                 | 0.225        |
| 338                                                                   | 0.225        | 388            | 0.225        | 438                           | 0.225        | 488            | 0.225        | 538            | 0.225        | 588                                                                                 | 0.225        |
| 339                                                                   | 0.225        | 389            | 0.225        | 439                           | 0.225        | 489            | 0.225        | 539            | 0.225        | 589                                                                                 | 0.225        |
| 340                                                                   | 0.225        | 390            | 0.225        | 440                           | 0.225        | 490            | 0.225        | 540            | 0.225        | 590                                                                                 | 0.225        |
| 341                                                                   | 0.225        | 391            | 0.225        | 441                           | 0.225        | 491            | 0.225        | 541            | 0.225        | 591                                                                                 | 0.225        |
| 342                                                                   | 0.225        | 392            | 0.225        | 442                           | 0.225        | 492            | 0.225        | 542            | 0.225        | 592                                                                                 | 0.225        |
| 343                                                                   | 0.225        | 393            | 0.225        | 443                           | 0.225        | 493            | 0.225        | 543            | 0.225        | 593                                                                                 | 0.225        |
| 344                                                                   | 0.225        | 394            | 0.225        | 444                           | 0.225        | 494            | 0.225        | 544            | 0.225        | 594                                                                                 | 0.225        |
| 345                                                                   | 0.225        | 395            | 0.225        | 445                           | 0.225        | 495            | 0.225        | 545            | 0.225        | 595                                                                                 | 0.225        |
| 346                                                                   | 0.225        | 396            | 0.225        | 446                           | 0.225        | 496            | 0.225        | 546            | 0.225        | 596                                                                                 | 0.225        |
| 347                                                                   | 0.225        | 397            | 0.225        | 447                           | 0.225        | 497            | 0.225        | 547            | 0.225        | 597                                                                                 | 0.225        |
| 348                                                                   | 0.225        | 398            | 0.225        | 448                           | 0.225        | 498            | 0.225        | 548            | 0.225        | 598                                                                                 | 0.225        |
| 349                                                                   | 0.225        | 399            | 0.225        | 449                           | 0.225        | 499            | 0.225        | 549            | 0.225        | 599                                                                                 | 0.225        |
| 350                                                                   | 0.225        | 400            | 0.225        | 450                           | 0.225        | 500            | 0.225        | 550            | 0.225        | 600                                                                                 | 0.225        |
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|                                                                       |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
|-----------------------------------------------------------------------|--------------|----------------|--------------|-------------------------------|--------------|----------------|--------------|----------------|--------------|-------------------------------------------------------------------------------------|--------------|
| EAS Transport Planning                                                |              |                |              |                               |              |                |              |                |              | Page 8                                                                              |              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |              |                |              | BLOCK B<br>SW NETWORK         |              |                |              |                |              |  |              |
| Date 12/07/2022 19:47<br>File 20220712-Block B - Surf...              |              |                |              | Designed by EAS<br>Checked by |              |                |              |                |              |                                                                                     |              |
| Innovyze                                                              |              |                |              | Network 2020.1.3              |              |                |              |                |              |                                                                                     |              |
| Surcharged Outfall Details for Storm                                  |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
| Time<br>(mins)                                                        | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) |
| 601                                                                   | 0.225        | 651            | 0.225        | 701                           | 0.225        | 751            | 0.225        | 801            | 0.225        | 851                                                                                 | 0.225        |
| 602                                                                   | 0.225        | 652            | 0.225        | 702                           | 0.225        | 752            | 0.225        | 802            | 0.225        | 852                                                                                 | 0.225        |
| 603                                                                   | 0.225        | 653            | 0.225        | 703                           | 0.225        | 753            | 0.225        | 803            | 0.225        | 853                                                                                 | 0.225        |
| 604                                                                   | 0.225        | 654            | 0.225        | 704                           | 0.225        | 754            | 0.225        | 804            | 0.225        | 854                                                                                 | 0.225        |
| 605                                                                   | 0.225        | 655            | 0.225        | 705                           | 0.225        | 755            | 0.225        | 805            | 0.225        | 855                                                                                 | 0.225        |
| 606                                                                   | 0.225        | 656            | 0.225        | 706                           | 0.225        | 756            | 0.225        | 806            | 0.225        | 856                                                                                 | 0.225        |
| 607                                                                   | 0.225        | 657            | 0.225        | 707                           | 0.225        | 757            | 0.225        | 807            | 0.225        | 857                                                                                 | 0.225        |
| 608                                                                   | 0.225        | 658            | 0.225        | 708                           | 0.225        | 758            | 0.225        | 808            | 0.225        | 858                                                                                 | 0.225        |
| 609                                                                   | 0.225        | 659            | 0.225        | 709                           | 0.225        | 759            | 0.225        | 809            | 0.225        | 859                                                                                 | 0.225        |
| 610                                                                   | 0.225        | 660            | 0.225        | 710                           | 0.225        | 760            | 0.225        | 810            | 0.225        | 860                                                                                 | 0.225        |
| 611                                                                   | 0.225        | 661            | 0.225        | 711                           | 0.225        | 761            | 0.225        | 811            | 0.225        | 861                                                                                 | 0.225        |
| 612                                                                   | 0.225        | 662            | 0.225        | 712                           | 0.225        | 762            | 0.225        | 812            | 0.225        | 862                                                                                 | 0.225        |
| 613                                                                   | 0.225        | 663            | 0.225        | 713                           | 0.225        | 763            | 0.225        | 813            | 0.225        | 863                                                                                 | 0.225        |
| 614                                                                   | 0.225        | 664            | 0.225        | 714                           | 0.225        | 764            | 0.225        | 814            | 0.225        | 864                                                                                 | 0.225        |
| 615                                                                   | 0.225        | 665            | 0.225        | 715                           | 0.225        | 765            | 0.225        | 815            | 0.225        | 865                                                                                 | 0.225        |
| 616                                                                   | 0.225        | 666            | 0.225        | 716                           | 0.225        | 766            | 0.225        | 816            | 0.225        | 866                                                                                 | 0.225        |
| 617                                                                   | 0.225        | 667            | 0.225        | 717                           | 0.225        | 767            | 0.225        | 817            | 0.225        | 867                                                                                 | 0.225        |
| 618                                                                   | 0.225        | 668            | 0.225        | 718                           | 0.225        | 768            | 0.225        | 818            | 0.225        | 868                                                                                 | 0.225        |
| 619                                                                   | 0.225        | 669            | 0.225        | 719                           | 0.225        | 769            | 0.225        | 819            | 0.225        | 869                                                                                 | 0.225        |
| 620                                                                   | 0.225        | 670            | 0.225        | 720                           | 0.225        | 770            | 0.225        | 820            | 0.225        | 870                                                                                 | 0.225        |
| 621                                                                   | 0.225        | 671            | 0.225        | 721                           | 0.225        | 771            | 0.225        | 821            | 0.225        | 871                                                                                 | 0.225        |
| 622                                                                   | 0.225        | 672            | 0.225        | 722                           | 0.225        | 772            | 0.225        | 822            | 0.225        | 872                                                                                 | 0.225        |
| 623                                                                   | 0.225        | 673            | 0.225        | 723                           | 0.225        | 773            | 0.225        | 823            | 0.225        | 873                                                                                 | 0.225        |
| 624                                                                   | 0.225        | 674            | 0.225        | 724                           | 0.225        | 774            | 0.225        | 824            | 0.225        | 874                                                                                 | 0.225        |
| 625                                                                   | 0.225        | 675            | 0.225        | 725                           | 0.225        | 775            | 0.225        | 825            | 0.225        | 875                                                                                 | 0.225        |
| 626                                                                   | 0.225        | 676            | 0.225        | 726                           | 0.225        | 776            | 0.225        | 826            | 0.225        | 876                                                                                 | 0.225        |
| 627                                                                   | 0.225        | 677            | 0.225        | 727                           | 0.225        | 777            | 0.225        | 827            | 0.225        | 877                                                                                 | 0.225        |
| 628                                                                   | 0.225        | 678            | 0.225        | 728                           | 0.225        | 778            | 0.225        | 828            | 0.225        | 878                                                                                 | 0.225        |
| 629                                                                   | 0.225        | 679            | 0.225        | 729                           | 0.225        | 779            | 0.225        | 829            | 0.225        | 879                                                                                 | 0.225        |
| 630                                                                   | 0.225        | 680            | 0.225        | 730                           | 0.225        | 780            | 0.225        | 830            | 0.225        | 880                                                                                 | 0.225        |
| 631                                                                   | 0.225        | 681            | 0.225        | 731                           | 0.225        | 781            | 0.225        | 831            | 0.225        | 881                                                                                 | 0.225        |
| 632                                                                   | 0.225        | 682            | 0.225        | 732                           | 0.225        | 782            | 0.225        | 832            | 0.225        | 882                                                                                 | 0.225        |
| 633                                                                   | 0.225        | 683            | 0.225        | 733                           | 0.225        | 783            | 0.225        | 833            | 0.225        | 883                                                                                 | 0.225        |
| 634                                                                   | 0.225        | 684            | 0.225        | 734                           | 0.225        | 784            | 0.225        | 834            | 0.225        | 884                                                                                 | 0.225        |
| 635                                                                   | 0.225        | 685            | 0.225        | 735                           | 0.225        | 785            | 0.225        | 835            | 0.225        | 885                                                                                 | 0.225        |
| 636                                                                   | 0.225        | 686            | 0.225        | 736                           | 0.225        | 786            | 0.225        | 836            | 0.225        | 886                                                                                 | 0.225        |
| 637                                                                   | 0.225        | 687            | 0.225        | 737                           | 0.225        | 787            | 0.225        | 837            | 0.225        | 887                                                                                 | 0.225        |
| 638                                                                   | 0.225        | 688            | 0.225        | 738                           | 0.225        | 788            | 0.225        | 838            | 0.225        | 888                                                                                 | 0.225        |
| 639                                                                   | 0.225        | 689            | 0.225        | 739                           | 0.225        | 789            | 0.225        | 839            | 0.225        | 889                                                                                 | 0.225        |
| 640                                                                   | 0.225        | 690            | 0.225        | 740                           | 0.225        | 790            | 0.225        | 840            | 0.225        | 890                                                                                 | 0.225        |
| 641                                                                   | 0.225        | 691            | 0.225        | 741                           | 0.225        | 791            | 0.225        | 841            | 0.225        | 891                                                                                 | 0.225        |
| 642                                                                   | 0.225        | 692            | 0.225        | 742                           | 0.225        | 792            | 0.225        | 842            | 0.225        | 892                                                                                 | 0.225        |
| 643                                                                   | 0.225        | 693            | 0.225        | 743                           | 0.225        | 793            | 0.225        | 843            | 0.225        | 893                                                                                 | 0.225        |
| 644                                                                   | 0.225        | 694            | 0.225        | 744                           | 0.225        | 794            | 0.225        | 844            | 0.225        | 894                                                                                 | 0.225        |
| 645                                                                   | 0.225        | 695            | 0.225        | 745                           | 0.225        | 795            | 0.225        | 845            | 0.225        | 895                                                                                 | 0.225        |
| 646                                                                   | 0.225        | 696            | 0.225        | 746                           | 0.225        | 796            | 0.225        | 846            | 0.225        | 896                                                                                 | 0.225        |
| 647                                                                   | 0.225        | 697            | 0.225        | 747                           | 0.225        | 797            | 0.225        | 847            | 0.225        | 897                                                                                 | 0.225        |
| 648                                                                   | 0.225        | 698            | 0.225        | 748                           | 0.225        | 798            | 0.225        | 848            | 0.225        | 898                                                                                 | 0.225        |
| 649                                                                   | 0.225        | 699            | 0.225        | 749                           | 0.225        | 799            | 0.225        | 849            | 0.225        | 899                                                                                 | 0.225        |
| 650                                                                   | 0.225        | 700            | 0.225        | 750                           | 0.225        | 800            | 0.225        | 850            | 0.225        | 900                                                                                 | 0.225        |
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|                                                                       |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
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| EAS Transport Planning                                                |              |                |              |                               |              |                |              |                |              | Page 9                                                                              |              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |              |                |              | BLOCK B<br>SW NETWORK         |              |                |              |                |              |  |              |
| Date 12/07/2022 19:47<br>File 20220712-Block B - Surf...              |              |                |              | Designed by EAS<br>Checked by |              |                |              |                |              |                                                                                     |              |
| Innovyze                                                              |              |                |              | Network 2020.1.3              |              |                |              |                |              |                                                                                     |              |
| Surcharged Outfall Details for Storm                                  |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
| Time<br>(mins)                                                        | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) |
| 901                                                                   | 0.225        | 951            | 0.225        | 1001                          | 0.225        | 1051           | 0.225        | 1101           | 0.225        | 1151                                                                                | 0.225        |
| 902                                                                   | 0.225        | 952            | 0.225        | 1002                          | 0.225        | 1052           | 0.225        | 1102           | 0.225        | 1152                                                                                | 0.225        |
| 903                                                                   | 0.225        | 953            | 0.225        | 1003                          | 0.225        | 1053           | 0.225        | 1103           | 0.225        | 1153                                                                                | 0.225        |
| 904                                                                   | 0.225        | 954            | 0.225        | 1004                          | 0.225        | 1054           | 0.225        | 1104           | 0.225        | 1154                                                                                | 0.225        |
| 905                                                                   | 0.225        | 955            | 0.225        | 1005                          | 0.225        | 1055           | 0.225        | 1105           | 0.225        | 1155                                                                                | 0.225        |
| 906                                                                   | 0.225        | 956            | 0.225        | 1006                          | 0.225        | 1056           | 0.225        | 1106           | 0.225        | 1156                                                                                | 0.225        |
| 907                                                                   | 0.225        | 957            | 0.225        | 1007                          | 0.225        | 1057           | 0.225        | 1107           | 0.225        | 1157                                                                                | 0.225        |
| 908                                                                   | 0.225        | 958            | 0.225        | 1008                          | 0.225        | 1058           | 0.225        | 1108           | 0.225        | 1158                                                                                | 0.225        |
| 909                                                                   | 0.225        | 959            | 0.225        | 1009                          | 0.225        | 1059           | 0.225        | 1109           | 0.225        | 1159                                                                                | 0.225        |
| 910                                                                   | 0.225        | 960            | 0.225        | 1010                          | 0.225        | 1060           | 0.225        | 1110           | 0.225        | 1160                                                                                | 0.225        |
| 911                                                                   | 0.225        | 961            | 0.225        | 1011                          | 0.225        | 1061           | 0.225        | 1111           | 0.225        | 1161                                                                                | 0.225        |
| 912                                                                   | 0.225        | 962            | 0.225        | 1012                          | 0.225        | 1062           | 0.225        | 1112           | 0.225        | 1162                                                                                | 0.225        |
| 913                                                                   | 0.225        | 963            | 0.225        | 1013                          | 0.225        | 1063           | 0.225        | 1113           | 0.225        | 1163                                                                                | 0.225        |
| 914                                                                   | 0.225        | 964            | 0.225        | 1014                          | 0.225        | 1064           | 0.225        | 1114           | 0.225        | 1164                                                                                | 0.225        |
| 915                                                                   | 0.225        | 965            | 0.225        | 1015                          | 0.225        | 1065           | 0.225        | 1115           | 0.225        | 1165                                                                                | 0.225        |
| 916                                                                   | 0.225        | 966            | 0.225        | 1016                          | 0.225        | 1066           | 0.225        | 1116           | 0.225        | 1166                                                                                | 0.225        |
| 917                                                                   | 0.225        | 967            | 0.225        | 1017                          | 0.225        | 1067           | 0.225        | 1117           | 0.225        | 1167                                                                                | 0.225        |
| 918                                                                   | 0.225        | 968            | 0.225        | 1018                          | 0.225        | 1068           | 0.225        | 1118           | 0.225        | 1168                                                                                | 0.225        |
| 919                                                                   | 0.225        | 969            | 0.225        | 1019                          | 0.225        | 1069           | 0.225        | 1119           | 0.225        | 1169                                                                                | 0.225        |
| 920                                                                   | 0.225        | 970            | 0.225        | 1020                          | 0.225        | 1070           | 0.225        | 1120           | 0.225        | 1170                                                                                | 0.225        |
| 921                                                                   | 0.225        | 971            | 0.225        | 1021                          | 0.225        | 1071           | 0.225        | 1121           | 0.225        | 1171                                                                                | 0.225        |
| 922                                                                   | 0.225        | 972            | 0.225        | 1022                          | 0.225        | 1072           | 0.225        | 1122           | 0.225        | 1172                                                                                | 0.225        |
| 923                                                                   | 0.225        | 973            | 0.225        | 1023                          | 0.225        | 1073           | 0.225        | 1123           | 0.225        | 1173                                                                                | 0.225        |
| 924                                                                   | 0.225        | 974            | 0.225        | 1024                          | 0.225        | 1074           | 0.225        | 1124           | 0.225        | 1174                                                                                | 0.225        |
| 925                                                                   | 0.225        | 975            | 0.225        | 1025                          | 0.225        | 1075           | 0.225        | 1125           | 0.225        | 1175                                                                                | 0.225        |
| 926                                                                   | 0.225        | 976            | 0.225        | 1026                          | 0.225        | 1076           | 0.225        | 1126           | 0.225        | 1176                                                                                | 0.225        |
| 927                                                                   | 0.225        | 977            | 0.225        | 1027                          | 0.225        | 1077           | 0.225        | 1127           | 0.225        | 1177                                                                                | 0.225        |
| 928                                                                   | 0.225        | 978            | 0.225        | 1028                          | 0.225        | 1078           | 0.225        | 1128           | 0.225        | 1178                                                                                | 0.225        |
| 929                                                                   | 0.225        | 979            | 0.225        | 1029                          | 0.225        | 1079           | 0.225        | 1129           | 0.225        | 1179                                                                                | 0.225        |
| 930                                                                   | 0.225        | 980            | 0.225        | 1030                          | 0.225        | 1080           | 0.225        | 1130           | 0.225        | 1180                                                                                | 0.225        |
| 931                                                                   | 0.225        | 981            | 0.225        | 1031                          | 0.225        | 1081           | 0.225        | 1131           | 0.225        | 1181                                                                                | 0.225        |
| 932                                                                   | 0.225        | 982            | 0.225        | 1032                          | 0.225        | 1082           | 0.225        | 1132           | 0.225        | 1182                                                                                | 0.225        |
| 933                                                                   | 0.225        | 983            | 0.225        | 1033                          | 0.225        | 1083           | 0.225        | 1133           | 0.225        | 1183                                                                                | 0.225        |
| 934                                                                   | 0.225        | 984            | 0.225        | 1034                          | 0.225        | 1084           | 0.225        | 1134           | 0.225        | 1184                                                                                | 0.225        |
| 935                                                                   | 0.225        | 985            | 0.225        | 1035                          | 0.225        | 1085           | 0.225        | 1135           | 0.225        | 1185                                                                                | 0.225        |
| 936                                                                   | 0.225        | 986            | 0.225        | 1036                          | 0.225        | 1086           | 0.225        | 1136           | 0.225        | 1186                                                                                | 0.225        |
| 937                                                                   | 0.225        | 987            | 0.225        | 1037                          | 0.225        | 1087           | 0.225        | 1137           | 0.225        | 1187                                                                                | 0.225        |
| 938                                                                   | 0.225        | 988            | 0.225        | 1038                          | 0.225        | 1088           | 0.225        | 1138           | 0.225        | 1188                                                                                | 0.225        |
| 939                                                                   | 0.225        | 989            | 0.225        | 1039                          | 0.225        | 1089           | 0.225        | 1139           | 0.225        | 1189                                                                                | 0.225        |
| 940                                                                   | 0.225        | 990            | 0.225        | 1040                          | 0.225        | 1090           | 0.225        | 1140           | 0.225        | 1190                                                                                | 0.225        |
| 941                                                                   | 0.225        | 991            | 0.225        | 1041                          | 0.225        | 1091           | 0.225        | 1141           | 0.225        | 1191                                                                                | 0.225        |
| 942                                                                   | 0.225        | 992            | 0.225        | 1042                          | 0.225        | 1092           | 0.225        | 1142           | 0.225        | 1192                                                                                | 0.225        |
| 943                                                                   | 0.225        | 993            | 0.225        | 1043                          | 0.225        | 1093           | 0.225        | 1143           | 0.225        | 1193                                                                                | 0.225        |
| 944                                                                   | 0.225        | 994            | 0.225        | 1044                          | 0.225        | 1094           | 0.225        | 1144           | 0.225        | 1194                                                                                | 0.225        |
| 945                                                                   | 0.225        | 995            | 0.225        | 1045                          | 0.225        | 1095           | 0.225        | 1145           | 0.225        | 1195                                                                                | 0.225        |
| 946                                                                   | 0.225        | 996            | 0.225        | 1046                          | 0.225        | 1096           | 0.225        | 1146           | 0.225        | 1196                                                                                | 0.225        |
| 947                                                                   | 0.225        | 997            | 0.225        | 1047                          | 0.225        | 1097           | 0.225        | 1147           | 0.225        | 1197                                                                                | 0.225        |
| 948                                                                   | 0.225        | 998            | 0.225        | 1048                          | 0.225        | 1098           | 0.225        | 1148           | 0.225        | 1198                                                                                | 0.225        |
| 949                                                                   | 0.225        | 999            | 0.225        | 1049                          | 0.225        | 1099           | 0.225        | 1149           | 0.225        | 1199                                                                                | 0.225        |
| 950                                                                   | 0.225        | 1000           | 0.225        | 1050                          | 0.225        | 1100           | 0.225        | 1150           | 0.225        | 1200                                                                                | 0.225        |
| ©1982-2020 Innovyze                                                   |              |                |              |                               |              |                |              |                |              |                                                                                     |              |

|                                                                       |              |                |              |                       |              |                  |              |                                                                                     |              |                |              |
|-----------------------------------------------------------------------|--------------|----------------|--------------|-----------------------|--------------|------------------|--------------|-------------------------------------------------------------------------------------|--------------|----------------|--------------|
| EAS Transport Planning                                                |              |                |              |                       |              | Page 10          |              |                                                                                     |              |                |              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |              |                |              | BLOCK B<br>SW NETWORK |              |                  |              |  |              |                |              |
| Date 12/07/2022 19:47                                                 |              |                |              | Designed by EAS       |              |                  |              |                                                                                     |              |                |              |
| File 20220712-Block B - Surf...                                       |              |                |              | Checked by            |              |                  |              |                                                                                     |              |                |              |
| Innovyze                                                              |              |                |              |                       |              | Network 2020.1.3 |              |                                                                                     |              |                |              |
| <div>Surcharged Outfall Details for Storm</div>                       |              |                |              |                       |              |                  |              |                                                                                     |              |                |              |
| Time<br>(mins)                                                        | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)        | Depth<br>(m) | Time<br>(mins)   | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) |
| 1201                                                                  | 0.225        | 1241           | 0.225        | 1281                  | 0.225        | 1321             | 0.225        | 1361                                                                                | 0.225        | 1401           | 0.225        |
| 1202                                                                  | 0.225        | 1242           | 0.225        | 1282                  | 0.225        | 1322             | 0.225        | 1362                                                                                | 0.225        | 1402           | 0.225        |
| 1203                                                                  | 0.225        | 1243           | 0.225        | 1283                  | 0.225        | 1323             | 0.225        | 1363                                                                                | 0.225        | 1403           | 0.225        |
| 1204                                                                  | 0.225        | 1244           | 0.225        | 1284                  | 0.225        | 1324             | 0.225        | 1364                                                                                | 0.225        | 1404           | 0.225        |
| 1205                                                                  | 0.225        | 1245           | 0.225        | 1285                  | 0.225        | 1325             | 0.225        | 1365                                                                                | 0.225        | 1405           | 0.225        |
| 1206                                                                  | 0.225        | 1246           | 0.225        | 1286                  | 0.225        | 1326             | 0.225        | 1366                                                                                | 0.225        | 1406           | 0.225        |
| 1207                                                                  | 0.225        | 1247           | 0.225        | 1287                  | 0.225        | 1327             | 0.225        | 1367                                                                                | 0.225        | 1407           | 0.225        |
| 1208                                                                  | 0.225        | 1248           | 0.225        | 1288                  | 0.225        | 1328             | 0.225        | 1368                                                                                | 0.225        | 1408           | 0.225        |
| 1209                                                                  | 0.225        | 1249           | 0.225        | 1289                  | 0.225        | 1329             | 0.225        | 1369                                                                                | 0.225        | 1409           | 0.225        |
| 1210                                                                  | 0.225        | 1250           | 0.225        | 1290                  | 0.225        | 1330             | 0.225        | 1370                                                                                | 0.225        | 1410           | 0.225        |
| 1211                                                                  | 0.225        | 1251           | 0.225        | 1291                  | 0.225        | 1331             | 0.225        | 1371                                                                                | 0.225        | 1411           | 0.225        |
| 1212                                                                  | 0.225        | 1252           | 0.225        | 1292                  | 0.225        | 1332             | 0.225        | 1372                                                                                | 0.225        | 1412           | 0.225        |
| 1213                                                                  | 0.225        | 1253           | 0.225        | 1293                  | 0.225        | 1333             | 0.225        | 1373                                                                                | 0.225        | 1413           | 0.225        |
| 1214                                                                  | 0.225        | 1254           | 0.225        | 1294                  | 0.225        | 1334             | 0.225        | 1374                                                                                | 0.225        | 1414           | 0.225        |
| 1215                                                                  | 0.225        | 1255           | 0.225        | 1295                  | 0.225        | 1335             | 0.225        | 1375                                                                                | 0.225        | 1415           | 0.225        |
| 1216                                                                  | 0.225        | 1256           | 0.225        | 1296                  | 0.225        | 1336             | 0.225        | 1376                                                                                | 0.225        | 1416           | 0.225        |
| 1217                                                                  | 0.225        | 1257           | 0.225        | 1297                  | 0.225        | 1337             | 0.225        | 1377                                                                                | 0.225        | 1417           | 0.225        |
| 1218                                                                  | 0.225        | 1258           | 0.225        | 1298                  | 0.225        | 1338             | 0.225        | 1378                                                                                | 0.225        | 1418           | 0.225        |
| 1219                                                                  | 0.225        | 1259           | 0.225        | 1299                  | 0.225        | 1339             | 0.225        | 1379                                                                                | 0.225        | 1419           | 0.225        |
| 1220                                                                  | 0.225        | 1260           | 0.225        | 1300                  | 0.225        | 1340             | 0.225        | 1380                                                                                | 0.225        | 1420           | 0.225        |
| 1221                                                                  | 0.225        | 1261           | 0.225        | 1301                  | 0.225        | 1341             | 0.225        | 1381                                                                                | 0.225        | 1421           | 0.225        |
| 1222                                                                  | 0.225        | 1262           | 0.225        | 1302                  | 0.225        | 1342             | 0.225        | 1382                                                                                | 0.225        | 1422           | 0.225        |
| 1223                                                                  | 0.225        | 1263           | 0.225        | 1303                  | 0.225        | 1343             | 0.225        | 1383                                                                                | 0.225        | 1423           | 0.225        |
| 1224                                                                  | 0.225        | 1264           | 0.225        | 1304                  | 0.225        | 1344             | 0.225        | 1384                                                                                | 0.225        | 1424           | 0.225        |
| 1225                                                                  | 0.225        | 1265           | 0.225        | 1305                  | 0.225        | 1345             | 0.225        | 1385                                                                                | 0.225        | 1425           | 0.225        |
| 1226                                                                  | 0.225        | 1266           | 0.225        | 1306                  | 0.225        | 1346             | 0.225        | 1386                                                                                | 0.225        | 1426           | 0.225        |
| 1227                                                                  | 0.225        | 1267           | 0.225        | 1307                  | 0.225        | 1347             | 0.225        | 1387                                                                                | 0.225        | 1427           | 0.225        |
| 1228                                                                  | 0.225        | 1268           | 0.225        | 1308                  | 0.225        | 1348             | 0.225        | 1388                                                                                | 0.225        | 1428           | 0.225        |
| 1229                                                                  | 0.225        | 1269           | 0.225        | 1309                  | 0.225        | 1349             | 0.225        | 1389                                                                                | 0.225        | 1429           | 0.225        |
| 1230                                                                  | 0.225        | 1270           | 0.225        | 1310                  | 0.225        | 1350             | 0.225        | 1390                                                                                | 0.225        | 1430           | 0.225        |
| 1231                                                                  | 0.225        | 1271           | 0.225        | 1311                  | 0.225        | 1351             | 0.225        | 1391                                                                                | 0.225        | 1431           | 0.225        |
| 1232                                                                  | 0.225        | 1272           | 0.225        | 1312                  | 0.225        | 1352             | 0.225        | 1392                                                                                | 0.225        | 1432           | 0.225        |
| 1233                                                                  | 0.225        | 1273           | 0.225        | 1313                  | 0.225        | 1353             | 0.225        | 1393                                                                                | 0.225        | 1433           | 0.225        |
| 1234                                                                  | 0.225        | 1274           | 0.225        | 1314                  | 0.225        | 1354             | 0.225        | 1394                                                                                | 0.225        | 1434           | 0.225        |
| 1235                                                                  | 0.225        | 1275           | 0.225        | 1315                  | 0.225        | 1355             | 0.225        | 1395                                                                                | 0.225        | 1435           | 0.225        |
| 1236                                                                  | 0.225        | 1276           | 0.225        | 1316                  | 0.225        | 1356             | 0.225        | 1396                                                                                | 0.225        | 1436           | 0.225        |
| 1237                                                                  | 0.225        | 1277           | 0.225        | 1317                  | 0.225        | 1357             | 0.225        | 1397                                                                                | 0.225        | 1437           | 0.225        |
| 1238                                                                  | 0.225        | 1278           | 0.225        | 1318                  | 0.225        | 1358             | 0.225        | 1398                                                                                | 0.225        | 1438           | 0.225        |
| 1239                                                                  | 0.225        | 1279           | 0.225        | 1319                  | 0.225        | 1359             | 0.225        | 1399                                                                                | 0.225        | 1439           | 0.225        |
| 1240                                                                  | 0.225        | 1280           | 0.225        | 1320                  | 0.225        | 1360             | 0.225        | 1400                                                                                | 0.225        | 1440           | 0.225        |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                               | Page 11                                                                             |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | BLOCK B<br>SW NETWORK         |  |
| Date 12/07/2022 19:47<br>File 20220712-Block B - Surf...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Designed by EAS<br>Checked by |                                                                                     |
| Innovyze<br>Network 2020.1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               |                                                                                     |
| <div>Simulation Criteria for Storm</div> <div><div>Volumetric Runoff Coeff 0.750</div><div>Additional Flow - % of Total Flow 0.000</div><div>Areal Reduction Factor 1.000</div><div>MADD Factor * 10m³/ha Storage 2.000</div><div>Hot Start (mins) 0</div><div>Inlet Coeffiecient 0.800</div><div>Hot Start Level (mm) 0</div><div>Flow per Person per Day (l/per/day) 0.000</div><div>Manhole Headloss Coeff (Global) 0.500</div><div>Run Time (mins) 60</div><div>Foul Sewage per hectare (l/s) 0.000</div><div>Output Interval (mins) 1</div><div>Number of Input Hydrographs 0</div><div>Number of Storage Structures 3</div><div>Number of Online Controls 3</div><div>Number of Time/Area Diagrams 0</div><div>Number of Offline Controls 0</div><div>Number of Real Time Controls 0</div></div> <div>Synthetic Rainfall Details</div> <div><div>Rainfall Model</div><div>FSR</div><div>Profile Type Summer</div><div>Return Period (years) 5</div><div>Cv (Summer) 0.750</div><div>Region England and Wales</div><div>Cv (Winter) 0.840</div><div>M5-60 (mm) 20.000</div><div>Storm Duration (mins) 30</div><div>Ratio R 0.405</div></div> |                               |                                                                                     |
| ©1982-2020 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                                     |

| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                               | Page 12                                                                             |                |           |            |                           |            |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|----------------|-----------|------------|---------------------------|------------|-----|------------|-------|-----|-----------|-------|-----|---------------------------|---|-----|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-------|-----|-------|-----|-------|-----|-------|------|-------|-----|-------|-----|-------|-----|-------|------|-------|-----|-------|-----|-------|-----|-------|------|-------|-----|-------|-----|-------|-----|-------|------|-------|-----|-------|-----|-------|-----|-------|------|-------|-----|-------|-----|-------|-----|-------|------|-------|-----|-------|-----|-------|------|--|--|-------|-----|-------|-----|-------|------|--|--|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BLOCK B<br>SW NETWORK         |  |                |           |            |                           |            |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |
| Date 12/07/2022 19:47<br>File 20220712-Block B - Surf...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Designed by EAS<br>Checked by |                                                                                     |                |           |            |                           |            |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Network 2020.1.3              |                                                                                     |                |           |            |                           |            |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |
| <div>Online Controls for Storm</div> <div>Orifice Manhole: B-PP1, DS/PN: 4.001, Volume (m³): 0.3</div> <div>Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 4.750</div> <div>Orifice Manhole: B-PP2, DS/PN: 6.001, Volume (m³): 0.3</div> <div>Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 4.350</div> <div>Hydro-Brake® Optimum Manhole: GEO AND HYDRO, DS/PN: 1.012, Volume (m³): 2.7</div> <div><div>Unit Reference MD-SHE-0101-5000-1320-5000</div><div>Design Head (m)1.320</div><div>Design Flow (l/s)5.0</div><div>Flush-Flo™Calculated</div><div>ObjectiveMinimise upstream storage</div><div>ApplicationSurface</div><div>Sump AvailableYes</div><div>Diameter (mm)101</div><div>Invert Level (m)2.800</div><div>Minimum Outlet Pipe Diameter (mm)150</div><div>Suggested Manhole Diameter (mm)1200</div></div> <div><table><tr><th>Control Points</th><th>Head (m)</th><th>Flow (l/s)</th></tr><tr><td>Design Point (Calculated)</td><td>1.320</td><td>5.0</td></tr><tr><td>Flush-Flo™</td><td>0.395</td><td>5.0</td></tr><tr><td>Kick-Flo®</td><td>0.815</td><td>4.0</td></tr><tr><td>Mean Flow over Head Range</td><td>-</td><td>4.4</td></tr></table></div> <div>The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated</div> <div><table><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr><tr><td>0.100</td><td>3.3</td><td>1.200</td><td>4.8</td><td>3.000</td><td>7.3</td><td>7.000</td><td>11.0</td></tr><tr><td>0.200</td><td>4.6</td><td>1.400</td><td>5.1</td><td>3.500</td><td>7.9</td><td>7.500</td><td>11.3</td></tr><tr><td>0.300</td><td>4.9</td><td>1.600</td><td>5.5</td><td>4.000</td><td>8.4</td><td>8.000</td><td>11.7</td></tr><tr><td>0.400</td><td>5.0</td><td>1.800</td><td>5.8</td><td>4.500</td><td>8.9</td><td>8.500</td><td>12.0</td></tr><tr><td>0.500</td><td>4.9</td><td>2.000</td><td>6.1</td><td>5.000</td><td>9.3</td><td>9.000</td><td>12.4</td></tr><tr><td>0.600</td><td>4.8</td><td>2.200</td><td>6.3</td><td>5.500</td><td>9.8</td><td>9.500</td><td>12.7</td></tr><tr><td>0.800</td><td>4.1</td><td>2.400</td><td>6.6</td><td>6.000</td><td>10.2</td><td></td><td></td></tr><tr><td>1.000</td><td>4.4</td><td>2.600</td><td>6.9</td><td>6.500</td><td>10.6</td><td></td><td></td></tr></table></div> |                               |                                                                                     | Control Points | Head (m)  | Flow (l/s) | Design Point (Calculated) | 1.320      | 5.0 | Flush-Flo™ | 0.395 | 5.0 | Kick-Flo® | 0.815 | 4.0 | Mean Flow over Head Range | - | 4.4 | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | 0.100 | 3.3 | 1.200 | 4.8 | 3.000 | 7.3 | 7.000 | 11.0 | 0.200 | 4.6 | 1.400 | 5.1 | 3.500 | 7.9 | 7.500 | 11.3 | 0.300 | 4.9 | 1.600 | 5.5 | 4.000 | 8.4 | 8.000 | 11.7 | 0.400 | 5.0 | 1.800 | 5.8 | 4.500 | 8.9 | 8.500 | 12.0 | 0.500 | 4.9 | 2.000 | 6.1 | 5.000 | 9.3 | 9.000 | 12.4 | 0.600 | 4.8 | 2.200 | 6.3 | 5.500 | 9.8 | 9.500 | 12.7 | 0.800 | 4.1 | 2.400 | 6.6 | 6.000 | 10.2 |  |  | 1.000 | 4.4 | 2.600 | 6.9 | 6.500 | 10.6 |  |  |
| Control Points                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Head (m)                      | Flow (l/s)                                                                          |                |           |            |                           |            |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |
| Design Point (Calculated)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1.320                         | 5.0                                                                                 |                |           |            |                           |            |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |
| Flush-Flo™                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.395                         | 5.0                                                                                 |                |           |            |                           |            |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |
| Kick-Flo®                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.815                         | 4.0                                                                                 |                |           |            |                           |            |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |
| Mean Flow over Head Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -                             | 4.4                                                                                 |                |           |            |                           |            |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Flow (l/s)                    | Depth (m)                                                                           | Flow (l/s)     | Depth (m) | Flow (l/s) | Depth (m)                 | Flow (l/s) |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |
| 0.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3.3                           | 1.200                                                                               | 4.8            | 3.000     | 7.3        | 7.000                     | 11.0       |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |
| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4.6                           | 1.400                                                                               | 5.1            | 3.500     | 7.9        | 7.500                     | 11.3       |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |
| 0.300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4.9                           | 1.600                                                                               | 5.5            | 4.000     | 8.4        | 8.000                     | 11.7       |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5.0                           | 1.800                                                                               | 5.8            | 4.500     | 8.9        | 8.500                     | 12.0       |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |
| 0.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4.9                           | 2.000                                                                               | 6.1            | 5.000     | 9.3        | 9.000                     | 12.4       |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |
| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4.8                           | 2.200                                                                               | 6.3            | 5.500     | 9.8        | 9.500                     | 12.7       |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |
| 0.800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4.1                           | 2.400                                                                               | 6.6            | 6.000     | 10.2       |                           |            |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |
| 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4.4                           | 2.600                                                                               | 6.9            | 6.500     | 10.6       |                           |            |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |
| ©1982-2020 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                               |                                                                                     |                |           |            |                           |            |     |            |       |     |           |       |     |                           |   |     |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |     |       |     |       |      |  |  |       |     |       |     |       |      |  |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                               |                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                               | Page 13                                                                             |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | BLOCK B<br>SW NETWORK         |  |
| Date 12/07/2022 19:47<br>File 20220712-Block B - Surf...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Designed by EAS<br>Checked by |                                                                                     |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Network 2020.1.3              |                                                                                     |
| <div>Storage Structures for Storm</div> <div><div>Porous Car Park Manhole: B-PP1, DS/PN: 4.001</div><div><div><div>Infiltration Coefficient Base (m/hr)0.00000</div><div>Width (m)21.8</div></div><div><div>Membrane Percolation (mm/hr)1000</div><div>Length (m)21.8</div></div><div><div>Max Percolation (l/s)132.0</div><div>Slope (1:X)500.0</div></div><div><div>Safety Factor2.0</div><div>Depression Storage (mm)5</div></div><div><div>Porosity0.30</div><div>Evaporation (mm/day)3</div></div><div><div>Invert Level (m)4.750</div><div>Membrane Depth (mm)0</div></div></div></div> <div><div>Porous Car Park Manhole: B-PP2, DS/PN: 6.001</div><div><div><div>Infiltration Coefficient Base (m/hr)0.00000</div><div>Width (m)12.2</div></div><div><div>Membrane Percolation (mm/hr)1000</div><div>Length (m)12.2</div></div><div><div>Max Percolation (l/s)41.3</div><div>Slope (1:X)500.0</div></div><div><div>Safety Factor2.0</div><div>Depression Storage (mm)5</div></div><div><div>Porosity0.30</div><div>Evaporation (mm/day)3</div></div><div><div>Invert Level (m)4.350</div><div>Membrane Depth (mm)0</div></div></div></div> <div><div>Cellular Storage Manhole: GEO AND HYDRO, DS/PN: 1.012</div><div><div><div>Invert Level (m)2.800</div><div>Safety Factor2.0</div></div><div><div>Infiltration Coefficient Base (m/hr)0.00000</div><div>Porosity0.95</div></div><div><div>Infiltration Coefficient Side (m/hr)0.00000</div></div></div><div><div><div><div>Depth (m)Area (m²)Inf. Area (m²)</div><div>0.00035.20.0</div><div>1.32035.20.0</div></div><div><div><div>Depth (m)Area (m²)Inf. Area (m²)</div><div>1.3210.00.0</div></div></div></div></div><div>©1982-2020 Innovyze</div></div> |                               |                                                                                     |

EAS Transport Planning

Unit 23, The Maltings  
Stanstead Abbotts  
Hertfordshire, SG12 8HG

Date 12/07/2022 19:47  
File 20220712-Block B - Surf...

Innovyze

BLOCK B  
SW NETWORK

Designed by EAS  
Checked by

Network 2020.1.3

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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor \* 10m³/ha Storage 2.000

Hot Start Level (mm) 0

Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500

Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0

Number of Storage Structures 3

Number of Online Controls 3

Number of Time/Area Diagrams 0

Number of Offline Controls 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH

FEH Rainfall Version 2013

Site Location GB 623065 309383 TG 23065 09383

Data Type Point

Cv (Summer) 0.750

Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status ON

DVD Status OFF

Inertia Status OFF

Profile(s) Summer and Winter

Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440

Return Period(s) (years) 100

Climate Change (%) 45

|       |       |                                  |       |       |        |       | Water  | Surcharged | Flooded  |  |
|-------|-------|----------------------------------|-------|-------|--------|-------|--------|------------|----------|--|
|       | US/MH |                                  |       |       | US/CL  | Level | Depth  | Volume     | Maximum  |  |
| PN    | Name  | Event                            |       |       | (m)    | (m)   | (m)    | (m³)       | Vol (m³) |  |
| 1.000 | B01   | 15 minute 100 year Winter I+45%  | 5.400 | 5.215 | 0.465  | 0.000 | 0.172  |            |          |  |
| 1.001 | B02   | 15 minute 100 year Winter I+45%  | 5.400 | 5.201 | 0.639  | 0.000 | 0.543  |            |          |  |
| 1.002 | B03   | 15 minute 100 year Winter I+45%  | 5.400 | 5.169 | 0.792  | 0.000 | 0.581  |            |          |  |
| 1.003 | B04   | 15 minute 100 year Winter I+45%  | 5.400 | 5.105 | 0.883  | 0.000 | 0.554  |            |          |  |
| 1.004 | B05   | 15 minute 100 year Winter I+45%  | 5.400 | 5.011 | 0.904  | 0.000 | 0.489  |            |          |  |
| 2.000 | B06   | 15 minute 100 year Winter I+45%  | 5.400 | 4.874 | 0.124  | 0.000 | 0.076  |            |          |  |
| 2.001 | B07   | 15 minute 100 year Winter I+45%  | 5.400 | 4.856 | 0.288  | 0.000 | 0.433  |            |          |  |
| 1.005 | B08   | 15 minute 100 year Winter I+45%  | 5.400 | 4.804 | 0.851  | 0.000 | 0.861  |            |          |  |
| 3.000 | B09   | 15 minute 100 year Summer I+45%  | 5.400 | 4.665 | -0.085 | 0.000 | 0.017  |            |          |  |
| 3.001 | B10   | 15 minute 100 year Summer I+45%  | 5.400 | 4.584 | -0.096 | 0.000 | 0.032  |            |          |  |
| 4.000 | DUMMY | 480 minute 100 year Winter I+45% | 5.400 | 5.017 | -0.008 | 0.000 | 0.039  |            |          |  |
| 4.001 | B-PP1 | 480 minute 100 year Winter I+45% | 5.400 | 5.017 | 0.117  | 0.000 | 35.176 |            |          |  |
| 1.006 | B11   | 15 minute 100 year Winter I+45%  | 5.400 | 4.393 | 0.537  | 0.000 | 0.571  |            |          |  |
| 1.007 | B12   | 15 minute 100 year Winter I+45%  | 5.400 | 4.220 | 0.485  | 0.000 | 0.899  |            |          |  |
| 1.008 | B13   | 15 minute 100 year Winter I+45%  | 5.400 | 4.096 | 0.421  | 0.000 | 0.507  |            |          |  |
| 5.000 | B14   | 120 minute 100 year Winter I+45% | 5.400 | 4.048 | -0.102 | 0.000 | 0.012  |            |          |  |

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|                                                                       |                       |                                                                                     |
|-----------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                |                       | Page 15                                                                             |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | BLOCK B<br>SW NETWORK |  |
| Date 12/07/2022 19:47                                                 | Designed by EAS       |                                                                                     |
| File 20220712-Block B - Surf...                                       | Checked by            |                                                                                     |
| Innovyze                                                              | Network 2020.1.3      |                                                                                     |

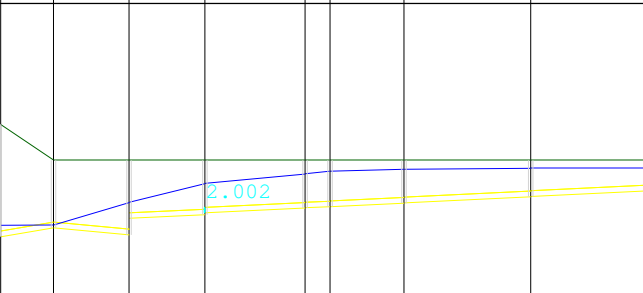
100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

| Half Drain Pipe |       |        |       |            |
|-----------------|-------|--------|-------|------------|
|                 | US/MH | Time   | Flow  |            |
| PN              | Name  | (mins) | (l/s) | Status     |
| 1.000           | B01   |        | 5.2   | FLOOD RISK |
| 1.001           | B02   |        | 8.7   | FLOOD RISK |
| 1.002           | B03   |        | 11.8  | FLOOD RISK |
| 1.003           | B04   |        | 15.1  | FLOOD RISK |
| 1.004           | B05   |        | 19.1  | SURCHARGED |
| 2.000           | B06   |        | 6.5   | SURCHARGED |
| 2.001           | B07   |        | 10.8  | SURCHARGED |
| 1.005           | B08   |        | 32.4  | SURCHARGED |
| 3.000           | B09   |        | 6.2   | OK         |
| 3.001           | B10   |        | 11.3  | OK         |
| 4.000           | DUMMY |        | 0.0   | OK         |
| 4.001           | B-PP1 | 545    | 0.7   | SURCHARGED |
| 1.006           | B11   |        | 44.6  | SURCHARGED |
| 1.007           | B12   |        | 49.0  | SURCHARGED |
| 1.008           | B13   |        | 53.4  | SURCHARGED |
| 5.000           | B14   |        | 1.7   | OK         |



|                                                                       |                               |                                                                                     |
|-----------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                |                               | Page 1                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | BLOCK C<br>SW NETWORK         |  |
| Date 12/07/2022 20:36<br>File 20220712-Block C - Surf...              | Designed by EAS<br>Checked by |                                                                                     |
| Innovyze                                                              | Network 2020.1.3              |                                                                                     |



| MH Name                                                    | ADOPT |                                                                                    |       |       | C05   |        | C02   | C01   |        |        |       |       |       |       |
|------------------------------------------------------------|-------|------------------------------------------------------------------------------------|-------|-------|-------|--------|-------|-------|--------|--------|-------|-------|-------|-------|
| Hor Scale 1000<br><br>Ver Scale 200<br><br>Datum (m)-1.000 |       |  |       |       |       |        |       |       |        |        |       |       |       |       |
|                                                            |       |                                                                                    |       |       |       |        |       |       |        |        |       |       |       |       |
|                                                            |       |                                                                                    |       |       |       |        |       |       |        |        |       |       |       |       |
|                                                            |       |                                                                                    |       |       |       |        |       |       |        |        |       |       |       |       |
| PN                                                         |       |                                                                                    |       |       | 1.004 |        | 1.001 | 1.000 |        |        |       |       |       |       |
| Dia (mm)                                                   |       |                                                                                    |       |       | 150   |        | 150   | 150   |        |        |       |       |       |       |
| Slope (1:X)                                                |       |                                                                                    |       |       | 100.0 |        | 100.0 | 100.0 |        |        |       |       |       |       |
| Cover Level (m)                                            | 5.000 | 4.050                                                                              | 4.050 | 4.050 | 4.050 | 4.050  | 4.050 | 4.050 |        |        |       |       |       |       |
| Invert Level (m)                                           |       | 2.260                                                                              | 2.260 | 2.070 | 2.505 | 2.605  | 2.650 | 2.783 | 2.816  | 2.914  | 2.914 | 3.082 | 3.082 | 3.250 |
| Length (m)                                                 |       |                                                                                    |       |       |       | 13.300 |       |       | 16.800 | 16.800 |       |       |       |       |

| MH Name          |  |  |  |  | C09   | C08    |       |       |       |       |
|------------------|--|--|--|--|-------|--------|-------|-------|-------|-------|
| Hor Scale 1000   |  |  |  |  |       |        |       |       |       |       |
| Ver Scale 200    |  |  |  |  |       |        |       |       |       |       |
| Datum (m)-1.000  |  |  |  |  |       |        |       |       |       |       |
| PN               |  |  |  |  | 2.002 |        |       |       |       |       |
| Dia (mm)         |  |  |  |  | 150   |        |       |       |       |       |
| Slope (1:X)      |  |  |  |  | 28.7  |        |       |       |       |       |
| Cover Level (m)  |  |  |  |  | 4.050 | 4.050  | 4.050 | 4.050 |       |       |
| Invert Level (m) |  |  |  |  | 2.650 | 3.085  | 3.085 | 3.168 | 3.168 | 3.250 |
| Length (m)       |  |  |  |  |       | 12.500 |       |       |       |       |

|                                                                       |                               |                                                                                     |
|-----------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                |                               | Page 1                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | BLOCK C<br>SW NETWORK         |  |
| Date 12/07/2022 20:37<br>File 20220712-Block C - Surf...              | Designed by EAS<br>Checked by |                                                                                     |
| Innovyze                                                              | Network 2020.1.3              |                                                                                     |

### Existing Network Details for Storm

\* - Indicates pipe has been modified outside of System 1

| PN      | Length<br>(m) | Fall<br>(m) | Slope<br>(1:X) | I.Area<br>(ha) | T.E.<br>(mins) | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) | Section Type |
|---------|---------------|-------------|----------------|----------------|----------------|-----------|-------------|-------------|--------------|
| * 1.000 | 16.800        | 0.168       | 100.0          | 0.003          | 3.00           | 0.600     | o           | 150         | Pipe/Conduit |
| * 1.001 | 16.800        | 0.168       | 100.0          | 0.009          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |
| * 1.002 | 9.800         | 0.098       | 100.0          | 0.009          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |
| * 1.003 | 3.300         | 0.033       | 100.0          | 0.009          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |
| * 1.004 | 13.300        | 0.133       | 100.0          | 0.009          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |
|         |               |             |                |                |                |           |             |             |              |
| * 2.000 | 8.200         | 0.082       | 100.0          | 0.009          | 5.00           | 0.600     | o           | 150         | Pipe/Conduit |
| * 2.001 | 8.300         | 0.083       | 100.0          | 0.009          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |
| * 2.002 | 12.500        | 0.435       | 28.7           | 0.009          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |
|         |               |             |                |                |                |           |             |             |              |
| * 1.005 | 10.000        | 0.100       | 100.0          | 0.009          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |
| * 1.006 | 10.000        | -0.190      | -52.6          | 0.000          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |
| * 1.007 | 7.000         | 0.240       | 29.2           | 0.000          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |

| PN      | US/MH<br>Name | US/CL<br>(m) | US/IL<br>(m) | US<br>C.Depth<br>(m) | DS/CL<br>(m) | DS/IL<br>(m) | DS<br>C.Depth<br>(m) | Ctrl | US/MH<br>(mm) |
|---------|---------------|--------------|--------------|----------------------|--------------|--------------|----------------------|------|---------------|
| * 1.000 |               | C01          | 4.050        | 3.250                | 0.650        | 4.050        | 3.082                |      | 600           |
| * 1.001 |               | C02          | 4.050        | 3.082                | 0.818        | 4.050        | 2.914                |      | 600           |
| * 1.002 |               | C03          | 4.050        | 2.914                | 0.986        | 4.050        | 2.816                |      | 600           |
| * 1.003 |               | C04          | 4.050        | 2.816                | 1.084        | 4.050        | 2.783                |      | 600           |
| * 1.004 |               | C05          | 4.050        | 2.783                | 1.117        | 4.050        | 2.650                |      | 600           |
|         |               |              |              |                      |              |              |                      |      |               |
| * 2.000 |               | C06          | 4.050        | 3.250                | 0.650        | 4.050        | 3.168                |      | 600           |
| * 2.001 |               | C07          | 4.050        | 3.168                | 0.732        | 4.050        | 3.085                |      | 600           |
| * 2.002 |               | C08          | 4.050        | 3.085                | 0.815        | 4.050        | 2.650                |      | 600           |
|         |               |              |              |                      |              |              |                      |      |               |
| * 1.005 |               | C09          | 4.050        | 2.605                | 1.295        | 4.050        | 2.505                |      | 600           |
| * 1.006 | PUMP AND      | GEO          | 4.050        | 2.070                | 1.830        | 4.050        | 2.260                | Pump | 600           |
| * 1.007 |               | C10          | 4.050        | 2.260                | 1.640        | 5.000        | 2.020                |      | 600           |

|                                                                       |                               |                                                                                     |
|-----------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                |                               | Page 2                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | BLOCK C<br>SW NETWORK         |  |
| Date 12/07/2022 20:37<br>File 20220712-Block C - Surf...              | Designed by EAS<br>Checked by |                                                                                     |
| Innovyze                                                              | Network 2020.1.3              |                                                                                     |

Manhole Schedules for Storm

| MH Name      | MH CL (m) | MH Depth (m) | MH Connection | MH Diam., L*W (mm) | PN    | Pipe Out Invert Level (m) | Diameter (mm) | PN    | Pipes In Invert Level (m) | Diameter (mm) | Back (mm) |
|--------------|-----------|--------------|---------------|--------------------|-------|---------------------------|---------------|-------|---------------------------|---------------|-----------|
| C01          | 4.050     | 0.800        | Open Manhole  | 600                | 1.000 | 3.250                     | 150           |       |                           |               |           |
| C02          | 4.050     | 0.968        | Open Manhole  | 600                | 1.001 | 3.082                     | 150           | 1.000 | 3.082                     | 150           |           |
| C03          | 4.050     | 1.136        | Open Manhole  | 600                | 1.002 | 2.914                     | 150           | 1.001 | 2.914                     | 150           |           |
| C04          | 4.050     | 1.234        | Open Manhole  | 600                | 1.003 | 2.816                     | 150           | 1.002 | 2.816                     | 150           |           |
| C05          | 4.050     | 1.267        | Open Manhole  | 600                | 1.004 | 2.783                     | 150           | 1.003 | 2.783                     | 150           |           |
| C06          | 4.050     | 0.800        | Open Manhole  | 600                | 2.000 | 3.250                     | 150           |       |                           |               |           |
| C07          | 4.050     | 0.882        | Open Manhole  | 600                | 2.001 | 3.168                     | 150           | 2.000 | 3.168                     | 150           |           |
| C08          | 4.050     | 0.965        | Open Manhole  | 600                | 2.002 | 3.085                     | 150           | 2.001 | 3.085                     | 150           |           |
| C09          | 4.050     | 1.445        | Open Manhole  | 600                | 1.005 | 2.605                     | 150           | 1.004 | 2.650                     | 150           |           |
|              |           |              |               |                    |       |                           |               | 2.002 | 2.650                     | 150           |           |
| PUMP AND GEO | 4.050     | 1.980        | Open Manhole  | 600                | 1.006 | 2.070                     | 150           | 1.005 | 2.505                     | 150           |           |
| C10          | 4.050     | 1.790        | Open Manhole  | 600                | 1.007 | 2.260                     | 150           | 1.006 | 2.260                     | 150           |           |
| ADOPT        | 5.000     | 2.980        | Open Manhole  | 0                  |       | OUTFALL                   |               | 1.007 | 2.020                     | 150           |           |

No coordinates have been specified, layout information cannot be produced.

| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                               | Page 3                                                                              |              |                  |             |             |               |                |             |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |              |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |    |            |             |         |             |             |             |               |                |     |       |        |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |      |     |       |       |       |              |  |     |       |        |       |              |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
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------------|-------|-------|-------|--------------|--|-----|-------|---|-----|-----|-------|-------|-------|--------------|--|-----|----|------------|-------------|---------|-------------|-------------|-------------|---------------|----------------|-----|-------|--------|-------|-----|-------|-------|-------|--------------|--|-----|-------|--------|-------|-----|-------|-------|-------|--------------|--|-----|-------|-------|-------|-----|-------|-------|-------|--------------|--|-----|-------|-------|-------|-----|-------|-------|-------|--------------|--|-----|-------|--------|-------|-----|-------|-------|-------|--------------|--|-----|-------|-------|-------|-----|-------|-------|-------|--------------|--|-----|-------|-------|-------|-----|-------|-------|-------|--------------|--|-----|-------|--------|------|-----|-------|-------|-------|--------------|--|-----|-------|--------|-------|--------------|-------|-------|-------|--------------|--|-----|-------|--------|-------|-----|-------|-------|-------|--------------|--|-----|-------|-------|------|-------|-------|-------|-------|--------------|--|---|---------------------|--------------|--------------|--------------|------------------|----------|--------|-------|-------|-------|-------|-------|---|---|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BLOCK C<br>SW NETWORK         |  |              |                  |             |             |               |                |             |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |              |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |    |            |             |         |             |             |             |               |                |     |       |        |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |      |     |       |       |       |              |  |     |       |        |       |              |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| Date 12/07/2022 20:37<br>File 20220712-Block C - Surf...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Designed by EAS<br>Checked by |                                                                                     |              |                  |             |             |               |                |             |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |              |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |    |            |             |         |             |             |             |               |                |     |       |        |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |      |     |       |       |       |              |  |     |       |        |       |              |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| Innovyze<br>Network 2020.1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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       |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |    |            |             |         |             |             |             |               |                |     |       |        |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |      |     |       |       |       |              |  |     |       |        |       |              |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| <div>PIPELINE SCHEDULES for Storm</div> <div>Upstream Manhole</div> <table><tr><th>PN</th><th>Hyd Sect</th><th>Diam (mm)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., (mm)</th><th>L*W</th></tr><tr><td>1.000</td><td>o</td><td>150</td><td>C01</td><td>4.050</td><td>3.250</td><td>0.650</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>1.001</td><td>o</td><td>150</td><td>C02</td><td>4.050</td><td>3.082</td><td>0.818</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>1.002</td><td>o</td><td>150</td><td>C03</td><td>4.050</td><td>2.914</td><td>0.986</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>1.003</td><td>o</td><td>150</td><td>C04</td><td>4.050</td><td>2.816</td><td>1.084</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>1.004</td><td>o</td><td>150</td><td>C05</td><td>4.050</td><td>2.783</td><td>1.117</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>2.000</td><td>o</td><td>150</td><td>C06</td><td>4.050</td><td>3.250</td><td>0.650</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>2.001</td><td>o</td><td>150</td><td>C07</td><td>4.050</td><td>3.168</td><td>0.732</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>2.002</td><td>o</td><td>150</td><td>C08</td><td>4.050</td><td>3.085</td><td>0.815</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>1.005</td><td>o</td><td>150</td><td>C09</td><td>4.050</td><td>2.605</td><td>1.295</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>1.006</td><td>o</td><td>150</td><td>PUMP AND GEO</td><td>4.050</td><td>2.070</td><td>1.830</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>1.007</td><td>o</td><td>150</td><td>C10</td><td>4.050</td><td>2.260</td><td>1.640</td><td>Open Manhole</td><td></td><td>600</td></tr></table> <div>Downstream Manhole</div> <table><tr><th>PN</th><th>Length (m)</th><th>Slope (1:X)</th><th>MH Name</th><th>C.Level (m)</th><th>I.Level (m)</th><th>D.Depth (m)</th><th>MH Connection</th><th>MH DIAM., (mm)</th><th>L*W</th></tr><tr><td>1.000</td><td>16.800</td><td>100.0</td><td>C02</td><td>4.050</td><td>3.082</td><td>0.818</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>1.001</td><td>16.800</td><td>100.0</td><td>C03</td><td>4.050</td><td>2.914</td><td>0.986</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>1.002</td><td>9.800</td><td>100.0</td><td>C04</td><td>4.050</td><td>2.816</td><td>1.084</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>1.003</td><td>3.300</td><td>100.0</td><td>C05</td><td>4.050</td><td>2.783</td><td>1.117</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>1.004</td><td>13.300</td><td>100.0</td><td>C09</td><td>4.050</td><td>2.650</td><td>1.250</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>2.000</td><td>8.200</td><td>100.0</td><td>C07</td><td>4.050</td><td>3.168</td><td>0.732</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>2.001</td><td>8.300</td><td>100.0</td><td>C08</td><td>4.050</td><td>3.085</td><td>0.815</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>2.002</td><td>12.500</td><td>28.7</td><td>C09</td><td>4.050</td><td>2.650</td><td>1.250</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>1.005</td><td>10.000</td><td>100.0</td><td>PUMP AND GEO</td><td>4.050</td><td>2.505</td><td>1.395</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>1.006</td><td>10.000</td><td>-52.6</td><td>C10</td><td>4.050</td><td>2.260</td><td>1.640</td><td>Open Manhole</td><td></td><td>600</td></tr><tr><td>1.007</td><td>7.000</td><td>29.2</td><td>ADOPT</td><td>5.000</td><td>2.020</td><td>2.830</td><td>Open Manhole</td><td></td><td>0</td></tr></table> <div>Surcharged Outfall Details for Storm</div> <table><tr><th>Outfall Pipe Number</th><th>Outfall Name</th><th>C. Level (m)</th><th>I. Level (m)</th><th>Min I. Level (m)</th><th>D,L (mm)</th><th>W (mm)</th></tr><tr><td>1.007</td><td>ADOPT</td><td>5.000</td><td>2.020</td><td>0.000</td><td>0</td><td>0</td></tr></table> <div>Datum (m) 2.020 Offset (mins) 0</div> |                               |                                                                                     | PN           | Hyd Sect         | Diam (mm)   | MH Name     | C.Level (m)   | I.Level (m)    | D.Depth (m) | MH Connection | MH DIAM., (mm) | L*W | 1.000 | o | 150 | C01 | 4.050 | 3.250 | 0.650 | Open Manhole |  | 600 | 1.001 | o | 150 | C02 | 4.050 | 3.082 | 0.818 | Open Manhole |  | 600 | 1.002 | o | 150 | C03 | 4.050 | 2.914 | 0.986 | Open Manhole |  | 600 | 1.003 | o | 150 | C04 | 4.050 | 2.816 | 1.084 | Open Manhole |  | 600 | 1.004 | o | 150 | C05 | 4.050 | 2.783 | 1.117 | Open Manhole |  | 600 | 2.000 | o | 150 | C06 | 4.050 | 3.250 | 0.650 | Open Manhole |  | 600 | 2.001 | o | 150 | C07 | 4.050 | 3.168 | 0.732 | Open Manhole |  | 600 | 2.002 | o | 150 | C08 | 4.050 | 3.085 | 0.815 | Open Manhole |  | 600 | 1.005 | o | 150 | C09 | 4.050 | 2.605 | 1.295 | Open Manhole |  | 600 | 1.006 | o | 150 | PUMP AND GEO | 4.050 | 2.070 | 1.830 | Open Manhole |  | 600 | 1.007 | o | 150 | C10 | 4.050 | 2.260 | 1.640 | Open Manhole |  | 600 | PN | Length (m) | Slope (1:X) | MH Name | C.Level (m) | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., (mm) | L*W | 1.000 | 16.800 | 100.0 | C02 | 4.050 | 3.082 | 0.818 | Open Manhole |  | 600 | 1.001 | 16.800 | 100.0 | C03 | 4.050 | 2.914 | 0.986 | Open Manhole |  | 600 | 1.002 | 9.800 | 100.0 | C04 | 4.050 | 2.816 | 1.084 | Open Manhole |  | 600 | 1.003 | 3.300 | 100.0 | C05 | 4.050 | 2.783 | 1.117 | Open Manhole |  | 600 | 1.004 | 13.300 | 100.0 | C09 | 4.050 | 2.650 | 1.250 | Open Manhole |  | 600 | 2.000 | 8.200 | 100.0 | C07 | 4.050 | 3.168 | 0.732 | Open Manhole |  | 600 | 2.001 | 8.300 | 100.0 | C08 | 4.050 | 3.085 | 0.815 | Open Manhole |  | 600 | 2.002 | 12.500 | 28.7 | C09 | 4.050 | 2.650 | 1.250 | Open Manhole |  | 600 | 1.005 | 10.000 | 100.0 | PUMP AND GEO | 4.050 | 2.505 | 1.395 | Open Manhole |  | 600 | 1.006 | 10.000 | -52.6 | C10 | 4.050 | 2.260 | 1.640 | Open Manhole |  | 600 | 1.007 | 7.000 | 29.2 | ADOPT | 5.000 | 2.020 | 2.830 | Open Manhole |  | 0 | Outfall Pipe Number | Outfall Name | C. Level (m) | I. Level (m) | Min I. Level (m) | D,L (mm) | W (mm) | 1.007 | ADOPT | 5.000 | 2.020 | 0.000 | 0 | 0 |
| PN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Hyd Sect                      | Diam (mm)                                                                           | MH Name      | C.Level (m)      | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., (mm) | L*W         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |       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   |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | o                             | 150                                                                                 | C01          | 4.050            | 3.250       | 0.650       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |       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   |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 1.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | o                             | 150                                                                                 | C02          | 4.050            | 3.082       | 0.818       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |       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   |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 1.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | o                             | 150                                                                                 | C03          | 4.050            | 2.914       | 0.986       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |       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   |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 1.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | o                             | 150                                                                                 | C04          | 4.050            | 2.816       | 1.084       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |       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| 1.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | o                             | 150                                                                                 | C05          | 4.050            | 2.783       | 1.117       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |       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| 2.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | o                             | 150                                                                                 | C06          | 4.050            | 3.250       | 0.650       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |       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   |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 2.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | o                             | 150                                                                                 | C07          | 4.050            | 3.168       | 0.732       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |       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   |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 2.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | o                             | 150                                                                                 | C08          | 4.050            | 3.085       | 0.815       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |       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   |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 1.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | o                             | 150                                                                                 | C09          | 4.050            | 2.605       | 1.295       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |       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   |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 1.006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | o                             | 150                                                                                 | PUMP AND GEO | 4.050            | 2.070       | 1.830       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |       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   |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 1.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | o                             | 150                                                                                 | C10          | 4.050            | 2.260       | 1.640       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |       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   |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| PN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Length (m)                    | Slope (1:X)                                                                         | MH Name      | C.Level (m)      | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., (mm) | L*W         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |       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   |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 16.800                        | 100.0                                                                               | C02          | 4.050            | 3.082       | 0.818       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |       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   |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 1.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 16.800                        | 100.0                                                                               | C03          | 4.050            | 2.914       | 0.986       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |       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   |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 1.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 9.800                         | 100.0                                                                               | C04          | 4.050            | 2.816       | 1.084       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |       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   |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 1.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.300                         | 100.0                                                                               | C05          | 4.050            | 2.783       | 1.117       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |       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   |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 1.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 13.300                        | 100.0                                                                               | C09          | 4.050            | 2.650       | 1.250       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |              |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |    |            |             |         |             |             |             |               |                |     |       |        |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |      |     |       |       |       |              |  |     |       |        |       |              |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 2.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8.200                         | 100.0                                                                               | C07          | 4.050            | 3.168       | 0.732       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |              |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |    |            |             |         |             |             |             |               |                |     |       |        |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |      |     |       |       |       |              |  |     |       |        |       |              |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 2.001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8.300                         | 100.0                                                                               | C08          | 4.050            | 3.085       | 0.815       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |              |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |    |            |             |         |             |             |             |               |                |     |       |        |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |      |     |       |       |       |              |  |     |       |        |       |              |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 2.002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12.500                        | 28.7                                                                                | C09          | 4.050            | 2.650       | 1.250       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |              |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |    |            |             |         |             |             |             |               |                |     |       |        |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |      |     |       |       |       |              |  |     |       |        |       |              |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 1.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10.000                        | 100.0                                                                               | PUMP AND GEO | 4.050            | 2.505       | 1.395       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |              |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |    |            |             |         |             |             |             |               |                |     |       |        |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |      |     |       |       |       |              |  |     |       |        |       |              |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 1.006                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10.000                        | -52.6                                                                               | C10          | 4.050            | 2.260       | 1.640       | Open Manhole  |                | 600         |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |              |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |    |            |             |         |             |             |             |               |                |     |       |        |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |      |     |       |       |       |              |  |     |       |        |       |              |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 1.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7.000                         | 29.2                                                                                | ADOPT        | 5.000            | 2.020       | 2.830       | Open Manhole  |                | 0           |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |              |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |    |            |             |         |             |             |             |               |                |     |       |        |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |      |     |       |       |       |              |  |     |       |        |       |              |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| Outfall Pipe Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Outfall Name                  | C. Level (m)                                                                        | I. Level (m) | Min I. Level (m) | D,L (mm)    | W (mm)      |               |                |             |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |              |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |    |            |             |         |             |             |             |               |                |     |       |        |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |      |     |       |       |       |              |  |     |       |        |       |              |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| 1.007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ADOPT                         | 5.000                                                                               | 2.020        | 0.000            | 0           | 0           |               |                |             |               |                |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |       |   |     |              |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |    |            |             |         |             |             |             |               |                |     |       |        |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |      |     |       |       |       |              |  |     |       |        |       |              |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |      |       |       |       |       |              |  |   |                     |              |              |              |                  |          |        |       |       |       |       |       |   |   |
| ©1982-2020 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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       |       |       |       |              |  |     |       |   |     |     |       |       |       |              |  |     |    |            |             |         |             |             |             |               |                |     |       |        |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |       |       |     |       |       |       |              |  |     |       |        |      |     |       |       |       |              |  |     |       |        |       |              |       |       |       |              |  |     |       |        |       |     |    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|                                                                       |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
|-----------------------------------------------------------------------|--------------|----------------|--------------|-------------------------------|--------------|----------------|--------------|----------------|--------------|-------------------------------------------------------------------------------------|--------------|
| EAS Transport Planning                                                |              |                |              |                               |              |                |              |                |              | Page 4                                                                              |              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |              |                |              | BLOCK C<br>SW NETWORK         |              |                |              |                |              |  |              |
| Date 12/07/2022 20:37<br>File 20220712-Block C - Surf...              |              |                |              | Designed by EAS<br>Checked by |              |                |              |                |              |                                                                                     |              |
| Innovyze                                                              |              |                |              | Network 2020.1.3              |              |                |              |                |              |                                                                                     |              |
| Surcharged Outfall Details for Storm                                  |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
| Time<br>(mins)                                                        | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) |
| 1                                                                     | 0.300        | 51             | 0.300        | 101                           | 0.300        | 151            | 0.300        | 201            | 0.300        | 251                                                                                 | 0.300        |
| 2                                                                     | 0.300        | 52             | 0.300        | 102                           | 0.300        | 152            | 0.300        | 202            | 0.300        | 252                                                                                 | 0.300        |
| 3                                                                     | 0.300        | 53             | 0.300        | 103                           | 0.300        | 153            | 0.300        | 203            | 0.300        | 253                                                                                 | 0.300        |
| 4                                                                     | 0.300        | 54             | 0.300        | 104                           | 0.300        | 154            | 0.300        | 204            | 0.300        | 254                                                                                 | 0.300        |
| 5                                                                     | 0.300        | 55             | 0.300        | 105                           | 0.300        | 155            | 0.300        | 205            | 0.300        | 255                                                                                 | 0.300        |
| 6                                                                     | 0.300        | 56             | 0.300        | 106                           | 0.300        | 156            | 0.300        | 206            | 0.300        | 256                                                                                 | 0.300        |
| 7                                                                     | 0.300        | 57             | 0.300        | 107                           | 0.300        | 157            | 0.300        | 207            | 0.300        | 257                                                                                 | 0.300        |
| 8                                                                     | 0.300        | 58             | 0.300        | 108                           | 0.300        | 158            | 0.300        | 208            | 0.300        | 258                                                                                 | 0.300        |
| 9                                                                     | 0.300        | 59             | 0.300        | 109                           | 0.300        | 159            | 0.300        | 209            | 0.300        | 259                                                                                 | 0.300        |
| 10                                                                    | 0.300        | 60             | 0.300        | 110                           | 0.300        | 160            | 0.300        | 210            | 0.300        | 260                                                                                 | 0.300        |
| 11                                                                    | 0.300        | 61             | 0.300        | 111                           | 0.300        | 161            | 0.300        | 211            | 0.300        | 261                                                                                 | 0.300        |
| 12                                                                    | 0.300        | 62             | 0.300        | 112                           | 0.300        | 162            | 0.300        | 212            | 0.300        | 262                                                                                 | 0.300        |
| 13                                                                    | 0.300        | 63             | 0.300        | 113                           | 0.300        | 163            | 0.300        | 213            | 0.300        | 263                                                                                 | 0.300        |
| 14                                                                    | 0.300        | 64             | 0.300        | 114                           | 0.300        | 164            | 0.300        | 214            | 0.300        | 264                                                                                 | 0.300        |
| 15                                                                    | 0.300        | 65             | 0.300        | 115                           | 0.300        | 165            | 0.300        | 215            | 0.300        | 265                                                                                 | 0.300        |
| 16                                                                    | 0.300        | 66             | 0.300        | 116                           | 0.300        | 166            | 0.300        | 216            | 0.300        | 266                                                                                 | 0.300        |
| 17                                                                    | 0.300        | 67             | 0.300        | 117                           | 0.300        | 167            | 0.300        | 217            | 0.300        | 267                                                                                 | 0.300        |
| 18                                                                    | 0.300        | 68             | 0.300        | 118                           | 0.300        | 168            | 0.300        | 218            | 0.300        | 268                                                                                 | 0.300        |
| 19                                                                    | 0.300        | 69             | 0.300        | 119                           | 0.300        | 169            | 0.300        | 219            | 0.300        | 269                                                                                 | 0.300        |
| 20                                                                    | 0.300        | 70             | 0.300        | 120                           | 0.300        | 170            | 0.300        | 220            | 0.300        | 270                                                                                 | 0.300        |
| 21                                                                    | 0.300        | 71             | 0.300        | 121                           | 0.300        | 171            | 0.300        | 221            | 0.300        | 271                                                                                 | 0.300        |
| 22                                                                    | 0.300        | 72             | 0.300        | 122                           | 0.300        | 172            | 0.300        | 222            | 0.300        | 272                                                                                 | 0.300        |
| 23                                                                    | 0.300        | 73             | 0.300        | 123                           | 0.300        | 173            | 0.300        | 223            | 0.300        | 273                                                                                 | 0.300        |
| 24                                                                    | 0.300        | 74             | 0.300        | 124                           | 0.300        | 174            | 0.300        | 224            | 0.300        | 274                                                                                 | 0.300        |
| 25                                                                    | 0.300        | 75             | 0.300        | 125                           | 0.300        | 175            | 0.300        | 225            | 0.300        | 275                                                                                 | 0.300        |
| 26                                                                    | 0.300        | 76             | 0.300        | 126                           | 0.300        | 176            | 0.300        | 226            | 0.300        | 276                                                                                 | 0.300        |
| 27                                                                    | 0.300        | 77             | 0.300        | 127                           | 0.300        | 177            | 0.300        | 227            | 0.300        | 277                                                                                 | 0.300        |
| 28                                                                    | 0.300        | 78             | 0.300        | 128                           | 0.300        | 178            | 0.300        | 228            | 0.300        | 278                                                                                 | 0.300        |
| 29                                                                    | 0.300        | 79             | 0.300        | 129                           | 0.300        | 179            | 0.300        | 229            | 0.300        | 279                                                                                 | 0.300        |
| 30                                                                    | 0.300        | 80             | 0.300        | 130                           | 0.300        | 180            | 0.300        | 230            | 0.300        | 280                                                                                 | 0.300        |
| 31                                                                    | 0.300        | 81             | 0.300        | 131                           | 0.300        | 181            | 0.300        | 231            | 0.300        | 281                                                                                 | 0.300        |
| 32                                                                    | 0.300        | 82             | 0.300        | 132                           | 0.300        | 182            | 0.300        | 232            | 0.300        | 282                                                                                 | 0.300        |
| 33                                                                    | 0.300        | 83             | 0.300        | 133                           | 0.300        | 183            | 0.300        | 233            | 0.300        | 283                                                                                 | 0.300        |
| 34                                                                    | 0.300        | 84             | 0.300        | 134                           | 0.300        | 184            | 0.300        | 234            | 0.300        | 284                                                                                 | 0.300        |

|                                                                       |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
|-----------------------------------------------------------------------|--------------|----------------|--------------|-------------------------------|--------------|----------------|--------------|----------------|--------------|-------------------------------------------------------------------------------------|--------------|
| EAS Transport Planning                                                |              |                |              |                               |              |                |              |                |              | Page 5                                                                              |              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |              |                |              | BLOCK C<br>SW NETWORK         |              |                |              |                |              |  |              |
| Date 12/07/2022 20:37<br>File 20220712-Block C - Surf...              |              |                |              | Designed by EAS<br>Checked by |              |                |              |                |              |                                                                                     |              |
| Innovyze                                                              |              |                |              | Network 2020.1.3              |              |                |              |                |              |                                                                                     |              |
| Surcharged Outfall Details for Storm                                  |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
| Time<br>(mins)                                                        | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) |
| 301                                                                   | 0.300        | 351            | 0.300        | 401                           | 0.300        | 451            | 0.300        | 501            | 0.300        | 551                                                                                 | 0.300        |
| 302                                                                   | 0.300        | 352            | 0.300        | 402                           | 0.300        | 452            | 0.300        | 502            | 0.300        | 552                                                                                 | 0.300        |
| 303                                                                   | 0.300        | 353            | 0.300        | 403                           | 0.300        | 453            | 0.300        | 503            | 0.300        | 553                                                                                 | 0.300        |
| 304                                                                   | 0.300        | 354            | 0.300        | 404                           | 0.300        | 454            | 0.300        | 504            | 0.300        | 554                                                                                 | 0.300        |
| 305                                                                   | 0.300        | 355            | 0.300        | 405                           | 0.300        | 455            | 0.300        | 505            | 0.300        | 555                                                                                 | 0.300        |
| 306                                                                   | 0.300        | 356            | 0.300        | 406                           | 0.300        | 456            | 0.300        | 506            | 0.300        | 556                                                                                 | 0.300        |
| 307                                                                   | 0.300        | 357            | 0.300        | 407                           | 0.300        | 457            | 0.300        | 507            | 0.300        | 557                                                                                 | 0.300        |
| 308                                                                   | 0.300        | 358            | 0.300        | 408                           | 0.300        | 458            | 0.300        | 508            | 0.300        | 558                                                                                 | 0.300        |
| 309                                                                   | 0.300        | 359            | 0.300        | 409                           | 0.300        | 459            | 0.300        | 509            | 0.300        | 559                                                                                 | 0.300        |
| 310                                                                   | 0.300        | 360            | 0.300        | 410                           | 0.300        | 460            | 0.300        | 510            | 0.300        | 560                                                                                 | 0.300        |
| 311                                                                   | 0.300        | 361            | 0.300        | 411                           | 0.300        | 461            | 0.300        | 511            | 0.300        | 561                                                                                 | 0.300        |
| 312                                                                   | 0.300        | 362            | 0.300        | 412                           | 0.300        | 462            | 0.300        | 512            | 0.300        | 562                                                                                 | 0.300        |
| 313                                                                   | 0.300        | 363            | 0.300        | 413                           | 0.300        | 463            | 0.300        | 513            | 0.300        | 563                                                                                 | 0.300        |
| 314                                                                   | 0.300        | 364            | 0.300        | 414                           | 0.300        | 464            | 0.300        | 514            | 0.300        | 564                                                                                 | 0.300        |
| 315                                                                   | 0.300        | 365            | 0.300        | 415                           | 0.300        | 465            | 0.300        | 515            | 0.300        | 565                                                                                 | 0.300        |
| 316                                                                   | 0.300        | 366            | 0.300        | 416                           | 0.300        | 466            | 0.300        | 516            | 0.300        | 566                                                                                 | 0.300        |
| 317                                                                   | 0.300        | 367            | 0.300        | 417                           | 0.300        | 467            | 0.300        | 517            | 0.300        | 567                                                                                 | 0.300        |
| 318                                                                   | 0.300        | 368            | 0.300        | 418                           | 0.300        | 468            | 0.300        | 518            | 0.300        | 568                                                                                 | 0.300        |
| 319                                                                   | 0.300        | 369            | 0.300        | 419                           | 0.300        | 469            | 0.300        | 519            | 0.300        | 569                                                                                 | 0.300        |
| 320                                                                   | 0.300        | 370            | 0.300        | 420                           | 0.300        | 470            | 0.300        | 520            | 0.300        | 570                                                                                 | 0.300        |
| 321                                                                   | 0.300        | 371            | 0.300        | 421                           | 0.300        | 471            | 0.300        | 521            | 0.300        | 571                                                                                 | 0.300        |
| 322                                                                   | 0.300        | 372            | 0.300        | 422                           | 0.300        | 472            | 0.300        | 522            | 0.300        | 572                                                                                 | 0.300        |
| 323                                                                   | 0.300        | 373            | 0.300        | 423                           | 0.300        | 473            | 0.300        | 523            | 0.300        | 573                                                                                 | 0.300        |
| 324                                                                   | 0.300        | 374            | 0.300        | 424                           | 0.300        | 474            | 0.300        | 524            | 0.300        | 574                                                                                 | 0.300        |
| 325                                                                   | 0.300        | 375            | 0.300        | 425                           | 0.300        | 475            | 0.300        | 525            | 0.300        | 575                                                                                 | 0.300        |
| 326                                                                   | 0.300        | 376            | 0.300        | 426                           | 0.300        | 476            | 0.300        | 526            | 0.300        | 576                                                                                 | 0.300        |
| 327                                                                   | 0.300        | 377            | 0.300        | 427                           | 0.300        | 477            | 0.300        | 527            | 0.300        | 577                                                                                 | 0.300        |
| 328                                                                   | 0.300        | 378            | 0.300        | 428                           | 0.300        | 478            | 0.300        | 528            | 0.300        | 578                                                                                 | 0.300        |
| 329                                                                   | 0.300        | 379            | 0.300        | 429                           | 0.300        | 479            | 0.300        | 529            | 0.300        | 579                                                                                 | 0.300        |
| 330                                                                   | 0.300        | 380            | 0.300        | 430                           | 0.300        | 480            | 0.300        | 530            | 0.300        | 580                                                                                 | 0.300        |
| 331                                                                   | 0.300        | 381            | 0.300        | 431                           | 0.300        | 481            | 0.300        | 531            | 0.300        | 581                                                                                 | 0.300        |
| 332                                                                   | 0.300        | 382            | 0.300        | 432                           | 0.300        | 482            | 0.300        | 532            | 0.300        | 582                                                                                 | 0.300        |
| 333                                                                   | 0.300        | 383            | 0.300        | 433                           | 0.300        | 483            | 0.300        | 533            | 0.300        | 583                                                                                 | 0.300        |
| 334                                                                   | 0.300        | 384            | 0.300        | 434                           | 0.300        | 484            | 0.300        | 534            | 0.300        | 584                                                                                 | 0.300        |
| 335                                                                   | 0.300        | 385            | 0.300        | 435                           | 0.300        | 485            | 0.300        | 535            | 0.300        | 585                                                                                 | 0.300        |
| 336                                                                   | 0.300        | 386            | 0.300        | 436                           | 0.300        | 486            | 0.300        | 536            | 0.300        | 586                                                                                 | 0.300        |
| 337                                                                   | 0.300        | 387            | 0.300        | 437                           | 0.300        | 487            | 0.300        | 537            | 0.300        | 587                                                                                 | 0.300        |
| 338                                                                   | 0.300        | 388            | 0.300        | 438                           | 0.300        | 488            | 0.300        | 538            | 0.300        | 588                                                                                 | 0.300        |
| 339                                                                   | 0.300        | 389            | 0.300        | 439                           | 0.300        | 489            | 0.300        | 539            | 0.300        | 589                                                                                 | 0.300        |
| 340                                                                   | 0.300        | 390            | 0.300        | 440                           | 0.300        | 490            | 0.300        | 540            | 0.300        | 590                                                                                 | 0.300        |
| 341                                                                   | 0.300        | 391            | 0.300        | 441                           | 0.300        | 491            | 0.300        | 541            | 0.300        | 591                                                                                 | 0.300        |
| 342                                                                   | 0.300        | 392            | 0.300        | 442                           | 0.300        | 492            | 0.300        | 542            | 0.300        | 592                                                                                 | 0.300        |
| 343                                                                   | 0.300        | 393            | 0.300        | 443                           | 0.300        | 493            | 0.300        | 543            | 0.300        | 593                                                                                 | 0.300        |
| 344                                                                   | 0.300        | 394            | 0.300        | 444                           | 0.300        | 494            | 0.300        | 544            | 0.300        | 594                                                                                 | 0.300        |
| 345                                                                   | 0.300        | 395            | 0.300        | 445                           | 0.300        | 495            | 0.300        | 545            | 0.300        | 595                                                                                 | 0.300        |
| 346                                                                   | 0.300        | 396            | 0.300        | 446                           | 0.300        | 496            | 0.300        | 546            | 0.300        | 596                                                                                 | 0.300        |
| 347                                                                   | 0.300        | 397            | 0.300        | 447                           | 0.300        | 497            | 0.300        | 547            | 0.300        | 597                                                                                 | 0.300        |
| 348                                                                   | 0.300        | 398            | 0.300        | 448                           | 0.300        | 498            | 0.300        | 548            | 0.300        | 598                                                                                 | 0.300        |
| 349                                                                   | 0.300        | 399            | 0.300        | 449                           | 0.300        | 499            | 0.300        | 549            | 0.300        | 599                                                                                 | 0.300        |
| 350                                                                   | 0.300        | 400            | 0.300        | 450                           | 0.300        | 500            | 0.300        | 550            | 0.300        | 600                                                                                 | 0.300        |
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| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                                    |              |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |    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| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                |              | BLOCK C<br>SW NETWORK         |              |                |              |                |              |  |              |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |
| Date 12/07/2022 20:37<br>File 20220712-Block C - Surf...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                    |              |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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                                                                    |              |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| <p style="text-align: center;"><u>Surcharged Outfall Details for Storm</u></p> <table border="1"> <thead> <tr> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> </tr> </thead> <tbody> <tr><td>601</td><td>0.300</td><td>651</td><td>0.300</td><td>701</td><td>0.300</td><td>751</td><td>0.300</td><td>801</td><td>0.300</td><td>851</td><td>0.300</td></tr> <tr><td>602</td><td>0.300</td><td>652</td><td>0.300</td><td>702</td><td>0.300</td><td>752</td><td>0.300</td><td>802</td><td>0.300</td><td>852</td><td>0.300</td></tr> <tr><td>603</td><td>0.300</td><td>653</td><td>0.300</td><td>703</td><td>0.300</td><td>753</td><td>0.300</td><td>803</td><td>0.300</td><td>853</td><td>0.300</td></tr> <tr><td>604</td><td>0.300</td><td>654</td><td>0.300</td><td>704</td><td>0.300</td><td>754</td><td>0.300</td><td>804</td><td>0.300</td><td>854</td><td>0.300</td></tr> <tr><td>605</td><td>0.300</td><td>655</td><td>0.300</td><td>705</td><td>0.300</td><td>755</td><td>0.300</td><td>805</td><td>0.300</td><td>855</td><td>0.300</td></tr> <tr><td>606</td><td>0.300</td><td>656</td><td>0.300</td><td>706</td><td>0.300</td><td>756</td><td>0.300</td><td>806</td><td>0.300</td><td>856</td><td>0.300</td></tr> <tr><td>607</td><td>0.300</td><td>657</td><td>0.300</td><td>707</td><td>0.300</td><td>757</td><td>0.300</td><td>807</td><td>0.300</td><td>857</td><td>0.300</td></tr> <tr><td>608</td><td>0.300</td><td>658</td><td>0.300</td><td>708</td><td>0.300</td><td>758</td><td>0.300</td><td>808</td><td>0.300</td><td>858</td><td>0.300</td></tr> <tr><td>609</td><td>0.300</td><td>659</td><td>0.300</td><td>709</td><td>0.300</td><td>759</td><td>0.300</td><td>809</td><td>0.300</td><td>859</td><td>0.300</td></tr> <tr><td>610</td><td>0.300</td><td>660</td><td>0.300</td><td>710</td><td>0.300</td><td>760</td><td>0.300</td><td>810</td><td>0.300</td><td>860</td><td>0.300</td></tr> <tr><td>611</td><td>0.300</td><td>661</td><td>0.300</td><td>711</td><td>0.300</td><td>761</td><td>0.300</td><td>811</td><td>0.300</td><td>861</td><td>0.300</td></tr> <tr><td>612</td><td>0.300</td><td>662</td><td>0.300</td><td>712</td><td>0.300</td><td>762</td><td>0.300</td><td>812</td><td>0.300</td><td>862</td><td>0.300</td></tr> <tr><td>613</td><td>0.300</td><td>663</td><td>0.300</td><td>713</td><td>0.300</td><td>763</td><td>0.300</td><td>813</td><td>0.300</td><td>863</td><td>0.300</td></tr> <tr><td>614</td><td>0.300</td><td>664</td><td>0.300</td><td>714</td><td>0.300</td><td>764</td><td>0.300</td><td>814</td><td>0.300</td><td>864</td><td>0.300</td></tr> <tr><td>615</td><td>0.300</td><td>665</td><td>0.300</td><td>715</td><td>0.300</td><td>765</td><td>0.300</td><td>815</td><td>0.300</td><td>865</td><td>0.300</td></tr> <tr><td>616</td><td>0.300</td><td>666</td><td>0.300</td><td>716</td><td>0.300</td><td>766</td><td>0.300</td><td>816</td><td>0.300</td><td>866</td><td>0.300</td></tr> <tr><td>617</td><td>0.300</td><td>667</td><td>0.300</td><td>717</td><td>0.300</td><td>767</td><td>0.300</td><td>817</td><td>0.300</td><td>867</td><td>0.300</td></tr> <tr><td>618</td><td>0.300</td><td>668</td><td>0.300</td><td>718</td><td>0.300</td><td>768</td><td>0.300</td><td>818</td><td>0.300</td><td>868</td><td>0.300</td></tr> <tr><td>619</td><td>0.300</td><td>669</td><td>0.300</td><td>719</td><td>0.300</td><td>769</td><td>0.300</td><td>819</td><td>0.300</td><td>869</td><td>0.300</td></tr> <tr><td>620</td><td>0.300</td><td>670</td><td>0.300</td><td>720</td><td>0.300</td><td>770</td><td>0.300</td><td>820</td><td>0.300</td><td>870</td><td>0.300</td></tr> <tr><td>621</td><td>0.300</td><td>671</td><td>0.300</td><td>721</td><td>0.300</td><td>771</td><td>0.300</td><td>821</td><td>0.300</td><td>871</td><td>0.300</td></tr> <tr><td>622</td><td>0.300</td><td>672</td><td>0.300</td><td>722</td><td>0.300</td><td>772</td><td>0.300</td><td>822</td><td>0.300</td><td>872</td><td>0.300</td></tr> <tr><td>623</td><td>0.300</td><td>673</td><td>0.300</td><td>723</td><td>0.300</td><td>773</td><td>0.300</td><td>823</td><td>0.300</td><td>873</td><td>0.300</td></tr> <tr><td>624</td><td>0.300</td><td>674</td><td>0.300</td><td>724</td><td>0.300</td><td>774</td><td>0.300</td><td>824</td><td>0.300</td><td>874</td><td>0.300</td></tr> <tr><td>625</td><td>0.300</td><td>675</td><td>0.300</td><td>725</td><td>0.300</td><td>775</td><td>0.300</td><td>825</td><td>0.300</td><td>875</td><td>0.300</td></tr> <tr><td>626</td><td>0.300</td><td>676</td><td>0.300</td><td>726</td><td>0.300</td><td>776</td><td>0.300</td><td>826</td><td>0.300</td><td>876</td><td>0.300</td></tr> <tr><td>627</td><td>0.300</td><td>677</td><td>0.300</td><td>727</td><td>0.300</td><td>777</td><td>0.300</td><td>827</td><td>0.300</td><td>877</td><td>0.300</td></tr> <tr><td>628</td><td>0.300</td><td>678</td><td>0.300</td><td>728</td><td>0.300</td><td>778</td><td>0.300</td><td>828</td><td>0.300</td><td>878</td><td>0.300</td></tr> <tr><td>629</td><td>0.300</td><td>679</td><td>0.300</td><td>729</td><td>0.300</td><td>779</td><td>0.300</td><td>829</td><td>0.300</td><td>879</td><td>0.300</td></tr> <tr><td>630</td><td>0.300</td><td>680</td><td>0.300</td><td>730</td><td>0.300</td><td>780</td><td>0.300</td><td>830</td><td>0.300</td><td>880</td><td>0.300</td></tr> <tr><td>631</td><td>0.300</td><td>681</td><td>0.300</td><td>731</td><td>0.300</td><td>781</td><td>0.300</td><td>831</td><td>0.300</td><td>881</td><td>0.300</td></tr> <tr><td>632</td><td>0.300</td><td>682</td><td>0.300</td><td>732</td><td>0.300</td><td>782</td><td>0.300</td><td>832</td><td>0.300</td><td>882</td><td>0.300</td></tr> <tr><td>633</td><td>0.300</td><td>683</td><td>0.300</td><td>733</td>&lt;</tr></tbody></table> |              |                |              |                               |              |                |              |                |              |                                                                                     |              | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | 601 | 0.300 | 651 | 0.300 | 701 | 0.300 | 751 | 0.300 | 801 | 0.300 | 851 | 0.300 | 602 | 0.300 | 652 | 0.300 | 702 | 0.300 | 752 | 0.300 | 802 | 0.300 | 852 | 0.300 | 603 | 0.300 | 653 | 0.300 | 703 | 0.300 | 753 | 0.300 | 803 | 0.300 | 853 | 0.300 | 604 | 0.300 | 654 | 0.300 | 704 | 0.300 | 754 | 0.300 | 804 | 0.300 | 854 | 0.300 | 605 | 0.300 | 655 | 0.300 | 705 | 0.300 | 755 | 0.300 | 805 | 0.300 | 855 | 0.300 | 606 | 0.300 | 656 | 0.300 | 706 | 0.300 | 756 | 0.300 | 806 | 0.300 | 856 | 0.300 | 607 | 0.300 | 657 | 0.300 | 707 | 0.300 | 757 | 0.300 | 807 | 0.300 | 857 | 0.300 | 608 | 0.300 | 658 | 0.300 | 708 | 0.300 | 758 | 0.300 | 808 | 0.300 | 858 | 0.300 | 609 | 0.300 | 659 | 0.300 | 709 | 0.300 | 759 | 0.300 | 809 | 0.300 | 859 | 0.300 | 610 | 0.300 | 660 | 0.300 | 710 | 0.300 | 760 | 0.300 | 810 | 0.300 | 860 | 0.300 | 611 | 0.300 | 661 | 0.300 | 711 | 0.300 | 761 | 0.300 | 811 | 0.300 | 861 | 0.300 | 612 | 0.300 | 662 | 0.300 | 712 | 0.300 | 762 | 0.300 | 812 | 0.300 | 862 | 0.300 | 613 | 0.300 | 663 | 0.300 | 713 | 0.300 | 763 | 0.300 | 813 | 0.300 | 863 | 0.300 | 614 | 0.300 | 664 | 0.300 | 714 | 0.300 | 764 | 0.300 | 814 | 0.300 | 864 | 0.300 | 615 | 0.300 | 665 | 0.300 | 715 | 0.300 | 765 | 0.300 | 815 | 0.300 | 865 | 0.300 | 616 | 0.300 | 666 | 0.300 | 716 | 0.300 | 766 | 0.300 | 816 | 0.300 | 866 | 0.300 | 617 | 0.300 | 667 | 0.300 | 717 | 0.300 | 767 | 0.300 | 817 | 0.300 | 867 | 0.300 | 618 | 0.300 | 668 | 0.300 | 718 | 0.300 | 768 | 0.300 | 818 | 0.300 | 868 | 0.300 | 619 | 0.300 | 669 | 0.300 | 719 | 0.300 | 769 | 0.300 | 819 | 0.300 | 869 | 0.300 | 620 | 0.300 | 670 | 0.300 | 720 | 0.300 | 770 | 0.300 | 820 | 0.300 | 870 | 0.300 | 621 | 0.300 | 671 | 0.300 | 721 | 0.300 | 771 | 0.300 | 821 | 0.300 | 871 | 0.300 | 622 | 0.300 | 672 | 0.300 | 722 | 0.300 | 772 | 0.300 | 822 | 0.300 | 872 | 0.300 | 623 | 0.300 | 673 | 0.300 | 723 | 0.300 | 773 | 0.300 | 823 | 0.300 | 873 | 0.300 | 624 | 0.300 | 674 | 0.300 | 724 | 0.300 | 774 | 0.300 | 824 | 0.300 | 874 | 0.300 | 625 | 0.300 | 675 | 0.300 | 725 | 0.300 | 775 | 0.300 | 825 | 0.300 | 875 | 0.300 | 626 | 0.300 | 676 | 0.300 | 726 | 0.300 | 776 | 0.300 | 826 | 0.300 | 876 | 0.300 | 627 | 0.300 | 677 | 0.300 | 727 | 0.300 | 777 | 0.300 | 827 | 0.300 | 877 | 0.300 | 628 | 0.300 | 678 | 0.300 | 728 | 0.300 | 778 | 0.300 | 828 | 0.300 | 878 | 0.300 | 629 | 0.300 | 679 | 0.300 | 729 | 0.300 | 779 | 0.300 | 829 | 0.300 | 879 | 0.300 | 630 | 0.300 | 680 | 0.300 | 730 | 0.300 | 780 | 0.300 | 830 | 0.300 | 880 | 0.300 | 631 | 0.300 | 681 | 0.300 | 731 | 0.300 | 781 | 0.300 | 831 | 0.300 | 881 | 0.300 | 632 | 0.300 | 682 | 0.300 | 732 | 0.300 | 782 | 0.300 | 832 | 0.300 | 882 | 0.300 | 633 | 0.300 | 683 | 0.300 | 733 |
| Time<br>(mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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                                                                    | Depth<br>(m) |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 601                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                    | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.300        | 652            | 0.300        | 702                           | 0.300        | 752            | 0.300        | 802            | 0.300        | 852                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.300        | 653            | 0.300        | 703                           | 0.300        | 753            | 0.300        | 803            | 0.300        | 853                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.300        | 654            | 0.300        | 704                           | 0.300        | 754            | 0.300        | 804            | 0.300        | 854                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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                                                                    | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.300        | 656            | 0.300        | 706                           | 0.300        | 756            | 0.300        | 806            | 0.300        | 856                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.300        | 657            | 0.300        | 707                           | 0.300        | 757            | 0.300        | 807            | 0.300        | 857                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 608                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                    | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.300        | 659            | 0.300        | 709                           | 0.300        | 759            | 0.300        | 809            | 0.300        | 859                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.300        | 660            | 0.300        | 710                           | 0.300        | 760            | 0.300        | 810            | 0.300        | 860                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.300        | 661            | 0.300        | 711                           | 0.300        | 761            | 0.300        | 811            | 0.300        | 861                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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                                                                    | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.300        | 663            | 0.300        | 713                           | 0.300        | 763            | 0.300        | 813            | 0.300        | 863                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 614                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.300        | 664            | 0.300        | 714                           | 0.300        | 764            | 0.300        | 814            | 0.300        | 864                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 615                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.300        | 665            | 0.300        | 715                           | 0.300        | 765            | 0.300        | 815            | 0.300        | 865                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.300        | 666            | 0.300        | 716                           | 0.300        | 766            | 0.300        | 816            | 0.300        | 866                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.300        | 667            | 0.300        | 717                           | 0.300        | 767            | 0.300        | 817            | 0.300        | 867                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.300        | 668            | 0.300        | 718                           | 0.300        | 768            | 0.300        | 818            | 0.300        | 868                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 619                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                    | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 620                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.300        | 670            | 0.300        | 720                           | 0.300        | 770            | 0.300        | 820            | 0.300        | 870                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 621                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.300        | 671            | 0.300        | 721                           | 0.300        | 771            | 0.300        | 821            | 0.300        | 871                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 622                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.300        | 672            | 0.300        | 722                           | 0.300        | 772            | 0.300        | 822            | 0.300        | 872                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 623                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.300        | 673            | 0.300        | 723                           | 0.300        | 773            | 0.300        | 823            | 0.300        | 873                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 624                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.300        | 674            | 0.300        | 724                           | 0.300        | 774            | 0.300        | 824            | 0.300        | 874                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 625                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.300        | 675            | 0.300        | 725                           | 0.300        | 775            | 0.300        | 825            | 0.300        | 875                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 626                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                    | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 627                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.300        | 677            | 0.300        | 727                           | 0.300        | 777            | 0.300        | 827            | 0.300        | 877                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 628                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.300        | 678            | 0.300        | 728                           | 0.300        | 778            | 0.300        | 828            | 0.300        | 878                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 629                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.300        | 679            | 0.300        | 729                           | 0.300        | 779            | 0.300        | 829            | 0.300        | 879                                                                                 | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 630                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                    | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 631                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                    | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 632                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                                    | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |     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| 633                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Date 12/07/2022 20:37<br>File 20220712-Block C - Surf...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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            |              |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| <p style="text-align: center;"><u>Surcharged Outfall Details for Storm</u></p> <table border="1"> <thead> <tr> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> <th>Time<br/>(mins)</th> <th>Depth<br/>(m)</th> </tr> </thead> <tbody> <tr><td>901</td><td>0.300</td><td>951</td><td>0.300</td><td>1001</td><td>0.300</td><td>1051</td><td>0.300</td><td>1101</td><td>0.300</td><td>1151</td><td>0.300</td></tr> <tr><td>902</td><td>0.300</td><td>952</td><td>0.300</td><td>1002</td><td>0.300</td><td>1052</td><td>0.300</td><td>1102</td><td>0.300</td><td>1152</td><td>0.300</td></tr> <tr><td>903</td><td>0.300</td><td>953</td><td>0.300</td><td>1003</td><td>0.300</td><td>1053</td><td>0.300</td><td>1103</td><td>0.300</td><td>1153</td><td>0.300</td></tr> <tr><td>904</td><td>0.300</td><td>954</td><td>0.300</td><td>1004</td><td>0.300</td><td>1054</td><td>0.300</td><td>1104</td><td>0.300</td><td>1154</td><td>0.300</td></tr> <tr><td>905</td><td>0.300</td><td>955</td><td>0.300</td><td>1005</td><td>0.300</td><td>1055</td><td>0.300</td><td>1105</td><td>0.300</td><td>1155</td><td>0.300</td></tr> <tr><td>906</td><td>0.300</td><td>956</td><td>0.300</td><td>1006</td><td>0.300</td><td>1056</td><td>0.300</td><td>1106</td><td>0.300</td><td>1156</td><td>0.300</td></tr> <tr><td>907</td><td>0.300</td><td>957</td><td>0.300</td><td>1007</td><td>0.300</td><td>1057</td><td>0.300</td><td>1107</td><td>0.300</td><td>1157</td><td>0.300</td></tr> <tr><td>908</td><td>0.300</td><td>958</td><td>0.300</td><td>1008</td><td>0.300</td><td>1058</td><td>0.300</td><td>1108</td><td>0.300</td><td>1158</td><td>0.300</td></tr> <tr><td>909</td><td>0.300</td><td>959</td><td>0.300</td><td>1009</td><td>0.300</td><td>1059</td><td>0.300</td><td>1109</td><td>0.300</td><td>1159</td><td>0.300</td></tr> <tr><td>910</td><td>0.300</td><td>960</td><td>0.300</td><td>1010</td><td>0.300</td><td>1060</td><td>0.300</td><td>1110</td><td>0.300</td><td>1160</td><td>0.300</td></tr> <tr><td>911</td><td>0.300</td><td>961</td><td>0.300</td><td>1011</td><td>0.300</td><td>1061</td><td>0.300</td><td>1111</td><td>0.300</td><td>1161</td><td>0.300</td></tr> <tr><td>912</td><td>0.300</td><td>962</td><td>0.300</td><td>1012</td><td>0.300</td><td>1062</td><td>0.300</td><td>1112</td><td>0.300</td><td>1162</td><td>0.300</td></tr> <tr><td>913</td><td>0.300</td><td>963</td><td>0.300</td><td>1013</td><td>0.300</td><td>1063</td><td>0.300</td><td>1113</td><td>0.300</td><td>1163</td><td>0.300</td></tr> <tr><td>914</td><td>0.300</td><td>964</td><td>0.300</td><td>1014</td><td>0.300</td><td>1064</td><td>0.300</td><td>1114</td><td>0.300</td><td>1164</td><td>0.300</td></tr> <tr><td>915</td><td>0.300</td><td>965</td><td>0.300</td><td>1015</td><td>0.300</td><td>1065</td><td>0.300</td><td>1115</td><td>0.300</td><td>1165</td><td>0.300</td></tr> <tr><td>916</td><td>0.300</td><td>966</td><td>0.300</td><td>1016</td><td>0.300</td><td>1066</td><td>0.300</td><td>1116</td><td>0.300</td><td>1166</td><td>0.300</td></tr> <tr><td>917</td><td>0.300</td><td>967</td><td>0.300</td><td>1017</td><td>0.300</td><td>1067</td><td>0.300</td><td>1117</td><td>0.300</td><td>1167</td><td>0.300</td></tr> <tr><td>918</td><td>0.300</td><td>968</td><td>0.300</td><td>1018</td><td>0.300</td><td>1068</td><td>0.300</td><td>1118</td><td>0.300</td><td>1168</td><td>0.300</td></tr> <tr><td>919</td><td>0.300</td><td>969</td><td>0.300</td><td>1019</td><td>0.300</td><td>1069</td><td>0.300</td><td>1119</td><td>0.300</td><td>1169</td><td>0.300</td></tr> <tr><td>920</td><td>0.300</td><td>970</td><td>0.300</td><td>1020</td><td>0.300</td><td>1070</td><td>0.300</td><td>1120</td><td>0.300</td><td>1170</td><td>0.300</td></tr> <tr><td>921</td><td>0.300</td><td>971</td><td>0.300</td><td>1021</td><td>0.300</td><td>1071</td><td>0.300</td><td>1121</td><td>0.300</td><td>1171</td><td>0.300</td></tr> <tr><td>922</td><td>0.300</td><td>972</td><td>0.300</td><td>1022</td><td>0.300</td><td>1072</td><td>0.300</td><td>1122</td><td>0.300</td><td>1172</td><td>0.300</td></tr> <tr><td>923</td><td>0.300</td><td>973</td><td>0.300</td><td>1023</td><td>0.300</td><td>1073</td><td>0.300</td><td>1123</td><td>0.300</td><td>1173</td><td>0.300</td></tr> <tr><td>924</td><td>0.300</td><td>974</td><td>0.300</td><td>1024</td><td>0.300</td><td>1074</td><td>0.300</td><td>1124</td><td>0.300</td><td>1174</td><td>0.300</td></tr> <tr><td>925</td><td>0.300</td><td>975</td><td>0.300</td><td>1025</td><td>0.300</td><td>1075</td><td>0.300</td><td>1125</td><td>0.300</td><td>1175</td><td>0.300</td></tr> <tr><td>926</td><td>0.300</td><td>976</td><td>0.300</td><td>1026</td><td>0.300</td><td>1076</td><td>0.300</td><td>1126</td><td>0.300</td><td>1176</td><td>0.300</td></tr> <tr><td>927</td><td>0.300</td><td>977</td><td>0.300</td><td>1027</td><td>0.300</td><td>1077</td><td>0.300</td><td>1127</td><td>0.300</td><td>1177</td><td>0.300</td></tr> <tr><td>928</td><td>0.300</td><td>978</td><td>0.300</td><td>1028</td><td>0.300</td><td>1078</td><td>0.300</td><td>1128</td><td>0.300</td><td>1178</td><td>0.300</td></tr> <tr><td>929</td><td>0.300</td><td>979</td><td>0.300</td><td>1029</td><td>0.300</td><td>1079</td><td>0.300</td><td>1129</td><td>0.300</td><td>1179</td><td>0.300</td></tr> <tr><td>930</td><td>0.300</td><td>980</td><td>0.300</td><td>1030</td><td>0.300</td><td>1080</td><td>0.300</td><td>1130</td><td>0.300</td><td>1180</td><td>0.300</td></tr> <tr><td>931</td><td>0.300</td><td>981</td><td>0.300</td><td>1031</td><td>0.300</td><td>1081</td><td>0.300</td><td>1131</td><td>0.300</td><td>1181</td><td>0.300</td></tr> <tr><td>932</td><td>0.300</td><td>982</td><td>0.300</td></tr></tbody></table> |              |                |              |                |                               |                |              |                |              |                                                                                     |              | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | 901 | 0.300 | 951 | 0.300 | 1001 | 0.300 | 1051 | 0.300 | 1101 | 0.300 | 1151 | 0.300 | 902 | 0.300 | 952 | 0.300 | 1002 | 0.300 | 1052 | 0.300 | 1102 | 0.300 | 1152 | 0.300 | 903 | 0.300 | 953 | 0.300 | 1003 | 0.300 | 1053 | 0.300 | 1103 | 0.300 | 1153 | 0.300 | 904 | 0.300 | 954 | 0.300 | 1004 | 0.300 | 1054 | 0.300 | 1104 | 0.300 | 1154 | 0.300 | 905 | 0.300 | 955 | 0.300 | 1005 | 0.300 | 1055 | 0.300 | 1105 | 0.300 | 1155 | 0.300 | 906 | 0.300 | 956 | 0.300 | 1006 | 0.300 | 1056 | 0.300 | 1106 | 0.300 | 1156 | 0.300 | 907 | 0.300 | 957 | 0.300 | 1007 | 0.300 | 1057 | 0.300 | 1107 | 0.300 | 1157 | 0.300 | 908 | 0.300 | 958 | 0.300 | 1008 | 0.300 | 1058 | 0.300 | 1108 | 0.300 | 1158 | 0.300 | 909 | 0.300 | 959 | 0.300 | 1009 | 0.300 | 1059 | 0.300 | 1109 | 0.300 | 1159 | 0.300 | 910 | 0.300 | 960 | 0.300 | 1010 | 0.300 | 1060 | 0.300 | 1110 | 0.300 | 1160 | 0.300 | 911 | 0.300 | 961 | 0.300 | 1011 | 0.300 | 1061 | 0.300 | 1111 | 0.300 | 1161 | 0.300 | 912 | 0.300 | 962 | 0.300 | 1012 | 0.300 | 1062 | 0.300 | 1112 | 0.300 | 1162 | 0.300 | 913 | 0.300 | 963 | 0.300 | 1013 | 0.300 | 1063 | 0.300 | 1113 | 0.300 | 1163 | 0.300 | 914 | 0.300 | 964 | 0.300 | 1014 | 0.300 | 1064 | 0.300 | 1114 | 0.300 | 1164 | 0.300 | 915 | 0.300 | 965 | 0.300 | 1015 | 0.300 | 1065 | 0.300 | 1115 | 0.300 | 1165 | 0.300 | 916 | 0.300 | 966 | 0.300 | 1016 | 0.300 | 1066 | 0.300 | 1116 | 0.300 | 1166 | 0.300 | 917 | 0.300 | 967 | 0.300 | 1017 | 0.300 | 1067 | 0.300 | 1117 | 0.300 | 1167 | 0.300 | 918 | 0.300 | 968 | 0.300 | 1018 | 0.300 | 1068 | 0.300 | 1118 | 0.300 | 1168 | 0.300 | 919 | 0.300 | 969 | 0.300 | 1019 | 0.300 | 1069 | 0.300 | 1119 | 0.300 | 1169 | 0.300 | 920 | 0.300 | 970 | 0.300 | 1020 | 0.300 | 1070 | 0.300 | 1120 | 0.300 | 1170 | 0.300 | 921 | 0.300 | 971 | 0.300 | 1021 | 0.300 | 1071 | 0.300 | 1121 | 0.300 | 1171 | 0.300 | 922 | 0.300 | 972 | 0.300 | 1022 | 0.300 | 1072 | 0.300 | 1122 | 0.300 | 1172 | 0.300 | 923 | 0.300 | 973 | 0.300 | 1023 | 0.300 | 1073 | 0.300 | 1123 | 0.300 | 1173 | 0.300 | 924 | 0.300 | 974 | 0.300 | 1024 | 0.300 | 1074 | 0.300 | 1124 | 0.300 | 1174 | 0.300 | 925 | 0.300 | 975 | 0.300 | 1025 | 0.300 | 1075 | 0.300 | 1125 | 0.300 | 1175 | 0.300 | 926 | 0.300 | 976 | 0.300 | 1026 | 0.300 | 1076 | 0.300 | 1126 | 0.300 | 1176 | 0.300 | 927 | 0.300 | 977 | 0.300 | 1027 | 0.300 | 1077 | 0.300 | 1127 | 0.300 | 1177 | 0.300 | 928 | 0.300 | 978 | 0.300 | 1028 | 0.300 | 1078 | 0.300 | 1128 | 0.300 | 1178 | 0.300 | 929 | 0.300 | 979 | 0.300 | 1029 | 0.300 | 1079 | 0.300 | 1129 | 0.300 | 1179 | 0.300 | 930 | 0.300 | 980 | 0.300 | 1030 | 0.300 | 1080 | 0.300 | 1130 | 0.300 | 1180 | 0.300 | 931 | 0.300 | 981 | 0.300 | 1031 | 0.300 | 1081 | 0.300 | 1131 | 0.300 | 1181 | 0.300 | 932 | 0.300 | 982 | 0.300 |
| Time<br>(mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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            | Depth<br>(m) |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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            | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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            | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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            | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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            | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 905                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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            | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 906                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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            | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 907                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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            | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 908                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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            | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 909                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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            | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 910                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.300        | 960            | 0.300        | 1010           | 0.300                         | 1060           | 0.300        | 1110           | 0.300        | 1160                                                                                | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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            | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 912                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.300        | 962            | 0.300        | 1012           | 0.300                         | 1062           | 0.300        | 1112           | 0.300        | 1162                                                                                | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 913                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.300        | 963            | 0.300        | 1013           | 0.300                         | 1063           | 0.300        | 1113           | 0.300        | 1163                                                                                | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 914                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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            | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 915                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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            | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 916                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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            | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 917                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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            | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 918                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.300        | 968            | 0.300        | 1018           | 0.300                         | 1068           | 0.300        | 1118           | 0.300        | 1168                                                                                | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 919                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.300        | 969            | 0.300        | 1019           | 0.300                         | 1069           | 0.300        | 1119           | 0.300        | 1169                                                                                | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 920                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.300        | 970            | 0.300        | 1020           | 0.300                         | 1070           | 0.300        | 1120           | 0.300        | 1170                                                                                | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 921                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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            | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 922                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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            | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 923                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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            | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 924                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.300        | 974            | 0.300        | 1024           | 0.300                         | 1074           | 0.300        | 1124           | 0.300        | 1174                                                                                | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 925                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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            | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 926                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.300        | 976            | 0.300        | 1026           | 0.300                         | 1076           | 0.300        | 1126           | 0.300        | 1176                                                                                | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 927                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.300        | 977            | 0.300        | 1027           | 0.300                         | 1077           | 0.300        | 1127           | 0.300        | 1177                                                                                | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 928                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.300        | 978            | 0.300        | 1028           | 0.300                         | 1078           | 0.300        | 1128           | 0.300        | 1178                                                                                | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 929                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.300        | 979            | 0.300        | 1029           | 0.300                         | 1079           | 0.300        | 1129           | 0.300        | 1179                                                                                | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 930                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.300        | 980            | 0.300        | 1030           | 0.300                         | 1080           | 0.300        | 1130           | 0.300        | 1180                                                                                | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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     |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |
| 931                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.300        | 981            | 0.300        | 1031           | 0.300                         | 1081           | 0.300        | 1131           | 0.300        | 1181                                                                                | 0.300        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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| 932                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.300        | 982            | 0.300        |                |                               |                |              |                |              |                                                                                     |              |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |      |       |     |       |     |       |      |       |      |       |      |       |    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|                                                                       |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
|-----------------------------------------------------------------------|--------------|----------------|--------------|-------------------------------|--------------|----------------|--------------|----------------|--------------|-------------------------------------------------------------------------------------|--------------|
| EAS Transport Planning                                                |              |                |              |                               |              |                |              |                |              | Page 8                                                                              |              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |              |                |              | BLOCK C<br>SW NETWORK         |              |                |              |                |              |  |              |
| Date 12/07/2022 20:37<br>File 20220712-Block C - Surf...              |              |                |              | Designed by EAS<br>Checked by |              |                |              |                |              |                                                                                     |              |
| Innovyze                                                              |              |                |              | Network 2020.1.3              |              |                |              |                |              |                                                                                     |              |
| <u>Surcharged Outfall Details for Storm</u>                           |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
| Time<br>(mins)                                                        | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) |
| 1201                                                                  | 0.300        | 1241           | 0.300        | 1281                          | 0.300        | 1321           | 0.300        | 1361           | 0.300        | 1401                                                                                | 0.300        |
| 1202                                                                  | 0.300        | 1242           | 0.300        | 1282                          | 0.300        | 1322           | 0.300        | 1362           | 0.300        | 1402                                                                                | 0.300        |
| 1203                                                                  | 0.300        | 1243           | 0.300        | 1283                          | 0.300        | 1323           | 0.300        | 1363           | 0.300        | 1403                                                                                | 0.300        |
| 1204                                                                  | 0.300        | 1244           | 0.300        | 1284                          | 0.300        | 1324           | 0.300        | 1364           | 0.300        | 1404                                                                                | 0.300        |
| 1205                                                                  | 0.300        | 1245           | 0.300        | 1285                          | 0.300        | 1325           | 0.300        | 1365           | 0.300        | 1405                                                                                | 0.300        |
| 1206                                                                  | 0.300        | 1246           | 0.300        | 1286                          | 0.300        | 1326           | 0.300        | 1366           | 0.300        | 1406                                                                                | 0.300        |
| 1207                                                                  | 0.300        | 1247           | 0.300        | 1287                          | 0.300        | 1327           | 0.300        | 1367           | 0.300        | 1407                                                                                | 0.300        |
| 1208                                                                  | 0.300        | 1248           | 0.300        | 1288                          | 0.300        | 1328           | 0.300        | 1368           | 0.300        | 1408                                                                                | 0.300        |
| 1209                                                                  | 0.300        | 1249           | 0.300        | 1289                          | 0.300        | 1329           | 0.300        | 1369           | 0.300        | 1409                                                                                | 0.300        |
| 1210                                                                  | 0.300        | 1250           | 0.300        | 1290                          | 0.300        | 1330           | 0.300        | 1370           | 0.300        | 1410                                                                                | 0.300        |
| 1211                                                                  | 0.300        | 1251           | 0.300        | 1291                          | 0.300        | 1331           | 0.300        | 1371           | 0.300        | 1411                                                                                | 0.300        |
| 1212                                                                  | 0.300        | 1252           | 0.300        | 1292                          | 0.300        | 1332           | 0.300        | 1372           | 0.300        | 1412                                                                                | 0.300        |
| 1213                                                                  | 0.300        | 1253           | 0.300        | 1293                          | 0.300        | 1333           | 0.300        | 1373           | 0.300        | 1413                                                                                | 0.300        |
| 1214                                                                  | 0.300        | 1254           | 0.300        | 1294                          | 0.300        | 1334           | 0.300        | 1374           | 0.300        | 1414                                                                                | 0.300        |
| 1215                                                                  | 0.300        | 1255           | 0.300        | 1295                          | 0.300        | 1335           | 0.300        | 1375           | 0.300        | 1415                                                                                | 0.300        |
| 1216                                                                  | 0.300        | 1256           | 0.300        | 1296                          | 0.300        | 1336           | 0.300        | 1376           | 0.300        | 1416                                                                                | 0.300        |
| 1217                                                                  | 0.300        | 1257           | 0.300        | 1297                          | 0.300        | 1337           | 0.300        | 1377           | 0.300        | 1417                                                                                | 0.300        |
| 1218                                                                  | 0.300        | 1258           | 0.300        | 1298                          | 0.300        | 1338           | 0.300        | 1378           | 0.300        | 1418                                                                                | 0.300        |
| 1219                                                                  | 0.300        | 1259           | 0.300        | 1299                          | 0.300        | 1339           | 0.300        | 1379           | 0.300        | 1419                                                                                | 0.300        |
| 1220                                                                  | 0.300        | 1260           | 0.300        | 1300                          | 0.300        | 1340           | 0.300        | 1380           | 0.300        | 1420                                                                                | 0.300        |
| 1221                                                                  | 0.300        | 1261           | 0.300        | 1301                          | 0.300        | 1341           | 0.300        | 1381           | 0.300        | 1421                                                                                | 0.300        |
| 1222                                                                  | 0.300        | 1262           | 0.300        | 1302                          | 0.300        | 1342           | 0.300        | 1382           | 0.300        | 1422                                                                                | 0.300        |
| 1223                                                                  | 0.300        | 1263           | 0.300        | 1303                          | 0.300        | 1343           | 0.300        | 1383           | 0.300        | 1423                                                                                | 0.300        |
| 1224                                                                  | 0.300        | 1264           | 0.300        | 1304                          | 0.300        | 1344           | 0.300        | 1384           | 0.300        | 1424                                                                                | 0.300        |
| 1225                                                                  | 0.300        | 1265           | 0.300        | 1305                          | 0.300        | 1345           | 0.300        | 1385           | 0.300        | 1425                                                                                | 0.300        |
| 1226                                                                  | 0.300        | 1266           | 0.300        | 1306                          | 0.300        | 1346           | 0.300        | 1386           | 0.300        | 1426                                                                                | 0.300        |
| 1227                                                                  | 0.300        | 1267           | 0.300        | 1307                          | 0.300        | 1347           | 0.300        | 1387           | 0.300        | 1427                                                                                | 0.300        |
| 1228                                                                  | 0.300        | 1268           | 0.300        | 1308                          | 0.300        | 1348           | 0.300        | 1388           | 0.300        | 1428                                                                                | 0.300        |
| 1229                                                                  | 0.300        | 1269           | 0.300        | 1309                          | 0.300        | 1349           | 0.300        | 1389           | 0.300        | 1429                                                                                | 0.300        |
| 1230                                                                  | 0.300        | 1270           | 0.300        | 1310                          | 0.300        | 1350           | 0.300        | 1390           | 0.300        | 1430                                                                                | 0.300        |
| 1231                                                                  | 0.300        | 1271           | 0.300        | 1311                          | 0.300        | 1351           | 0.300        | 1391           | 0.300        | 1431                                                                                | 0.300        |
| 1232                                                                  | 0.300        | 1272           | 0.300        | 1312                          | 0.300        | 1352           | 0.300        | 1392           | 0.300        | 1432                                                                                | 0.300        |
| 1233                                                                  | 0.300        | 1273           | 0.300        | 1313                          | 0.300        | 1353           | 0.300        | 1393           | 0.300        | 1433                                                                                | 0.300        |
| 1234                                                                  | 0.300        | 1274           | 0.300        | 1314                          | 0.300        | 1354           | 0.300        | 1394           | 0.300        | 1434                                                                                | 0.300        |
| 1235                                                                  | 0.300        | 1275           | 0.300        | 1315                          | 0.300        | 1355           | 0.300        | 1395           | 0.300        | 1435                                                                                | 0.300        |
| 1236                                                                  | 0.300        | 1276           | 0.300        | 1316                          | 0.300        | 1356           | 0.300        | 1396           | 0.300        | 1436                                                                                | 0.300        |
| 1237                                                                  | 0.300        | 1277           | 0.300        | 1317                          | 0.300        | 1357           | 0.300        | 1397           | 0.300        | 1437                                                                                | 0.300        |
| 1238                                                                  | 0.300        | 1278           | 0.300        | 1318                          | 0.300        | 1358           | 0.300        | 1398           | 0.300        | 1438                                                                                | 0.300        |
| 1239                                                                  | 0.300        | 1279           | 0.300        | 1319                          | 0.300        | 1359           | 0.300        | 1399           | 0.300        | 1439                                                                                | 0.300        |
| 1240                                                                  | 0.300        | 1280           | 0.300        | 1320                          | 0.300        | 1360           | 0.300        | 1400           | 0.300        | 1440                                                                                | 0.300        |
| ©1982-2020 Innovyze                                                   |              |                |              |                               |              |                |              |                |              |                                                                                     |              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       | Page 9                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | BLOCK C<br>SW NETWORK |  |
| Date 12/07/2022 20:37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Designed by EAS       |                                                                                     |
| File 20220712-Block C - Surf...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Checked by            |                                                                                     |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Network 2020.1.3      |                                                                                     |
| <div>Simulation Criteria for Storm</div> <div><div>Volumetric Runoff Coeff 0.750</div><div>Additional Flow - % of Total Flow 0.000</div><div>Areal Reduction Factor 1.000</div><div>MADD Factor * 10m³/ha Storage 2.000</div><div>Hot Start (mins) 0</div><div>Inlet Coeffiecient 0.800</div><div>Hot Start Level (mm) 0</div><div>Flow per Person per Day (l/per/day) 0.000</div><div>Manhole Headloss Coeff (Global) 0.500</div><div>Run Time (mins) 60</div><div>Foul Sewage per hectare (l/s) 0.000</div><div>Output Interval (mins) 1</div><div>Number of Input Hydrographs 0</div><div>Number of Storage Structures 1</div><div>Number of Online Controls 1</div><div>Number of Time/Area Diagrams 0</div><div>Number of Offline Controls 0</div><div>Number of Real Time Controls 0</div></div> <div>Synthetic Rainfall Details</div> <div><div>Rainfall Model</div><div>FSR</div><div>Profile Type Summer</div><div>Return Period (years) 5</div><div>Cv (Summer) 0.750</div><div>Region England and Wales</div><div>Cv (Winter) 0.840</div><div>M5-60 (mm) 20.000</div><div>Storm Duration (mins) 30</div><div>Ratio R 0.405</div></div> |                       |                                                                                     |
| ©1982-2020 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                       |                                                                                     |

| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                       | Page 10                                                                             |           |            |           |            |           |            |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |  |  |       |        |       |        |       |        |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------|-------------------------------------------------------------------------------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--|--|-------|--------|-------|--------|-------|--------|--|--|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            | BLOCK C<br>SW NETWORK |  |           |            |           |            |           |            |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |  |  |       |        |       |        |       |        |  |  |
| Date 12/07/2022 20:37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            | Designed by EAS       |                                                                                     |           |            |           |            |           |            |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |  |  |       |        |       |        |       |        |  |  |
| File 20220712-Block C - Surf...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            | Checked by            |                                                                                     |           |            |           |            |           |            |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |  |  |       |        |       |        |       |        |  |  |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            | Network 2020.1.3      |                                                                                     |           |            |           |            |           |            |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |  |  |       |        |       |        |       |        |  |  |
| <div>Online Controls for Storm</div> <div>Pump Manhole: PUMP AND GEO, DS/PN: 1.006, Volume (m³): 0.7</div> <div>Invert Level (m) 2.070</div> <table><thead><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr></thead><tbody><tr><td>0.100</td><td>0.5000</td><td>0.900</td><td>5.0000</td><td>1.700</td><td>5.0000</td><td>2.500</td><td>5.0000</td></tr><tr><td>0.200</td><td>1.0000</td><td>1.000</td><td>5.0000</td><td>1.800</td><td>5.0000</td><td>2.600</td><td>5.0000</td></tr><tr><td>0.300</td><td>1.5000</td><td>1.100</td><td>5.0000</td><td>1.900</td><td>5.0000</td><td>2.700</td><td>5.0000</td></tr><tr><td>0.400</td><td>2.0000</td><td>1.200</td><td>5.0000</td><td>2.000</td><td>5.0000</td><td>2.800</td><td>5.0000</td></tr><tr><td>0.500</td><td>3.0000</td><td>1.300</td><td>5.0000</td><td>2.100</td><td>5.0000</td><td>2.900</td><td>5.0000</td></tr><tr><td>0.600</td><td>4.0000</td><td>1.400</td><td>5.0000</td><td>2.200</td><td>5.0000</td><td>3.000</td><td>5.0000</td></tr><tr><td>0.700</td><td>5.0000</td><td>1.500</td><td>5.0000</td><td>2.300</td><td>5.0000</td><td></td><td></td></tr><tr><td>0.800</td><td>5.0000</td><td>1.600</td><td>5.0000</td><td>2.400</td><td>5.0000</td><td></td><td></td></tr></tbody></table> |            |                       |                                                                                     | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | 0.100 | 0.5000 | 0.900 | 5.0000 | 1.700 | 5.0000 | 2.500 | 5.0000 | 0.200 | 1.0000 | 1.000 | 5.0000 | 1.800 | 5.0000 | 2.600 | 5.0000 | 0.300 | 1.5000 | 1.100 | 5.0000 | 1.900 | 5.0000 | 2.700 | 5.0000 | 0.400 | 2.0000 | 1.200 | 5.0000 | 2.000 | 5.0000 | 2.800 | 5.0000 | 0.500 | 3.0000 | 1.300 | 5.0000 | 2.100 | 5.0000 | 2.900 | 5.0000 | 0.600 | 4.0000 | 1.400 | 5.0000 | 2.200 | 5.0000 | 3.000 | 5.0000 | 0.700 | 5.0000 | 1.500 | 5.0000 | 2.300 | 5.0000 |  |  | 0.800 | 5.0000 | 1.600 | 5.0000 | 2.400 | 5.0000 |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Flow (l/s) | Depth (m)             | Flow (l/s)                                                                          | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) |           |            |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |  |  |       |        |       |        |       |        |  |  |
| 0.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.5000     | 0.900                 | 5.0000                                                                              | 1.700     | 5.0000     | 2.500     | 5.0000     |           |            |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |  |  |       |        |       |        |       |        |  |  |
| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.0000     | 1.000                 | 5.0000                                                                              | 1.800     | 5.0000     | 2.600     | 5.0000     |           |            |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |  |  |       |        |       |        |       |        |  |  |
| 0.300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.5000     | 1.100                 | 5.0000                                                                              | 1.900     | 5.0000     | 2.700     | 5.0000     |           |            |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |  |  |       |        |       |        |       |        |  |  |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2.0000     | 1.200                 | 5.0000                                                                              | 2.000     | 5.0000     | 2.800     | 5.0000     |           |            |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |  |  |       |        |       |        |       |        |  |  |
| 0.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3.0000     | 1.300                 | 5.0000                                                                              | 2.100     | 5.0000     | 2.900     | 5.0000     |           |            |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |  |  |       |        |       |        |       |        |  |  |
| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4.0000     | 1.400                 | 5.0000                                                                              | 2.200     | 5.0000     | 3.000     | 5.0000     |           |            |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |  |  |       |        |       |        |       |        |  |  |
| 0.700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.0000     | 1.500                 | 5.0000                                                                              | 2.300     | 5.0000     |           |            |           |            |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |  |  |       |        |       |        |       |        |  |  |
| 0.800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.0000     | 1.600                 | 5.0000                                                                              | 2.400     | 5.0000     |           |            |           |            |           |            |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |  |  |       |        |       |        |       |        |  |  |
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| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               | Page 11                                                                             |           |           |                |           |           |                |       |      |     |       |      |     |       |      |     |       |     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|-----------|-----------|----------------|-----------|-----------|----------------|-------|------|-----|-------|------|-----|-------|------|-----|-------|-----|-----|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | BLOCK C<br>SW NETWORK         |  |           |           |                |           |           |                |       |      |     |       |      |     |       |      |     |       |     |     |
| Date 12/07/2022 20:37<br>File 20220712-Block C - Surf...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Designed by EAS<br>Checked by |                                                                                     |           |           |                |           |           |                |       |      |     |       |      |     |       |      |     |       |     |     |
| Innovyze<br>Network 2020.1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               |                                                                                     |           |           |                |           |           |                |       |      |     |       |      |     |       |      |     |       |     |     |
| <div>Storage Structures for Storm</div> <div>Cellular Storage Manhole: PUMP AND GEO, DS/PN: 1.006</div> <div>Invert Level (m) 2.070 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95<br/>Infiltration Coefficient Side (m/hr) 0.00000</div> <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>23.0</td><td>0.0</td><td>1.320</td><td>23.0</td><td>0.0</td></tr><tr><td>0.660</td><td>23.0</td><td>0.0</td><td>1.321</td><td>0.0</td><td>0.0</td></tr></tbody></table> |                               |                                                                                     | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | 0.000 | 23.0 | 0.0 | 1.320 | 23.0 | 0.0 | 0.660 | 23.0 | 0.0 | 1.321 | 0.0 | 0.0 |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Area (m²)                     | Inf. Area (m²)                                                                      | Depth (m) | Area (m²) | Inf. Area (m²) |           |           |                |       |      |     |       |      |     |       |      |     |       |     |     |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 23.0                          | 0.0                                                                                 | 1.320     | 23.0      | 0.0            |           |           |                |       |      |     |       |      |     |       |      |     |       |     |     |
| 0.660                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 23.0                          | 0.0                                                                                 | 1.321     | 0.0       | 0.0            |           |           |                |       |      |     |       |      |     |       |      |     |       |     |     |
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EAS Transport Planning

Unit 23, The Maltings  
Stanstead Abbotts  
Hertfordshire, SG12 8HG

Date 12/07/2022 20:37  
File 20220712-Block C - Surf...

Innovyze

BLOCK C  
SW NETWORK

Designed by EAS  
Checked by

Network 2020.1.3

Page 12



100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor \* 10m³/ha Storage 2.000

Hot Start Level (mm) 0

Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500

Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0

Number of Storage Structures 1

Number of Online Controls 1

Number of Time/Area Diagrams 0

Number of Offline Controls 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH

FEH Rainfall Version 2013

Site Location GB 623065 309383 TG 23065 09383

Data Type Point

Cv (Summer) 0.750

Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status ON

DVD Status OFF

Inertia Status OFF

Profile(s) Summer and Winter

Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440

Return Period(s) (years) 100

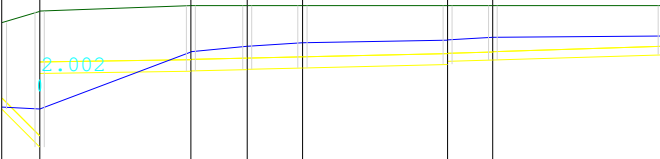
Climate Change (%) 45

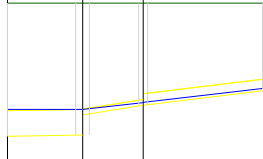
| PN    | US/MH Name   | Event                            | US/CL (m) | Water Level (m) | Surcharged Depth (m) | Flooded Volume (m³) |
|-------|--------------|----------------------------------|-----------|-----------------|----------------------|---------------------|
| 1.000 | C01          | 15 minute 100 year Winter I+45%  | 4.050     | 3.913           | 0.513                | 0.000               |
| 1.001 | C02          | 15 minute 100 year Winter I+45%  | 4.050     | 3.907           | 0.675                | 0.000               |
| 1.002 | C03          | 15 minute 100 year Winter I+45%  | 4.050     | 3.878           | 0.814                | 0.000               |
| 1.003 | C04          | 15 minute 100 year Winter I+45%  | 4.050     | 3.820           | 0.854                | 0.000               |
| 1.004 | C05          | 15 minute 100 year Winter I+45%  | 4.050     | 3.741           | 0.808                | 0.000               |
| 2.000 | C06          | 15 minute 100 year Winter I+45%  | 4.050     | 3.670           | 0.270                | 0.000               |
| 2.001 | C07          | 15 minute 100 year Winter I+45%  | 4.050     | 3.652           | 0.334                | 0.000               |
| 2.002 | C08          | 15 minute 100 year Winter I+45%  | 4.050     | 3.608           | 0.373                | 0.000               |
| 1.005 | C09          | 15 minute 100 year Winter I+45%  | 4.050     | 3.473           | 0.718                | 0.000               |
| 1.006 | PUMP AND GEO | 120 minute 100 year Winter I+45% | 4.050     | 3.337           | 1.117                | 0.000               |
| 1.007 | C10          | 360 minute 100 year Winter I+45% | 4.050     | 2.333           | -0.077               | 0.000               |

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|                                                                       |                               |                                                                                     |
|-----------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                |                               | Page 1                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | BLOCK D<br>SW NETWORK         |  |
| Date 13/07/2022 22:36<br>File 20220712-Block D - Surf...              | Designed by EAS<br>Checked by |                                                                                     |
| Innovyze                                                              | Network 2020.1.3              |                                                                                     |

| MH Name          | D10 | D06                                                                                |                |  | D03                                                |        | D01                     |  |        |
|------------------|-----|------------------------------------------------------------------------------------|----------------|--|----------------------------------------------------|--------|-------------------------|--|--------|
| Hor Scale 1000   |     |  |                |  |                                                    |        |                         |  |        |
| Ver Scale 200    |     |                                                                                    |                |  |                                                    |        |                         |  |        |
| Datum (m)-2.000  |     |                                                                                    |                |  |                                                    |        |                         |  |        |
| PN               |     |                                                                                    | 1.005          |  |                                                    | 1.002  |                         |  | 1.000  |
| Dia (mm)         |     |                                                                                    | 300            |  |                                                    | 300    |                         |  | 225    |
| Slope (1:X)      |     |                                                                                    | 333.3          |  |                                                    | 200.0  |                         |  | 150.0  |
| Cover Level (m)  |     | 4.500                                                                              | 4.800          |  | 4.950                                              |        | 4.950                   |  | 4.950  |
| Invert Level (m) |     |                                                                                    | 1.200<br>3.150 |  | 3.210<br>3.210<br>3.252<br>3.252<br>3.289<br>3.289 |        | 3.385<br>3.500<br>3.500 |  | 3.650  |
| Length (m)       |     |                                                                                    | 20.000         |  |                                                    | 19.200 |                         |  | 22.500 |

| MH Name          | D10                                                                                  |       |                |                |       |
|------------------|--------------------------------------------------------------------------------------|-------|----------------|----------------|-------|
| Hor Scale 1000   |  |       |                |                |       |
| Ver Scale 200    |                                                                                      |       |                |                |       |
| Datum (m)-2.000  |                                                                                      |       |                |                |       |
| PN               |                                                                                      |       |                | 1.007          |       |
| Dia (mm)         |                                                                                      |       |                | 300            |       |
| Slope (1:X)      |                                                                                      |       |                | 41.0           |       |
| Cover Level (m)  |                                                                                      | 4.500 | 4.500          | 4.500          | 4.500 |
| Invert Level (m) |                                                                                      | 0.975 | 1.015<br>1.540 | 1.800<br>1.800 | 2.200 |
| Length (m)       |                                                                                      |       |                | 16.400         |       |

|                                                                       |                               |                                                                                     |
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| EAS Transport Planning                                                |                               | Page 2                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | BLOCK D<br>SW NETWORK         |  |
| Date 13/07/2022 22:36<br>File 20220712-Block D - Surf...              | Designed by EAS<br>Checked by |                                                                                     |
| Innovyze                                                              | Network 2020.1.3              |                                                                                     |

| MH Name          | PUMP AND GEO | D08    |       |       |
|------------------|--------------|--------|-------|-------|
| Hor Scale 1000   |              |        |       |       |
| Ver Scale 200    |              |        |       |       |
| Datum (m)-2.000  |              |        |       |       |
| PN               |              | 2.001  |       |       |
| Dia (mm)         |              | 300    |       |       |
| Slope (1:X)      |              | 198.4  |       |       |
| Cover Level (m)  | 4.800        | 4.700  | 4.500 |       |
| Invert Level (m) |              | 2.781  | 2.845 | 3.000 |
| Length (m)       |              | 12.700 |       |       |

|                                                                       |                               |                                                                                     |
|-----------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                |                               | Page 1                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | BLOCK D<br>SW NETWORK         |  |
| Date 13/07/2022 22:36<br>File 20220712-Block D - Surf...              | Designed by EAS<br>Checked by |                                                                                     |
| Innovyze                                                              | Network 2020.1.3              |                                                                                     |

### Existing Network Details for Storm

\* - Indicates pipe has been modified outside of System 1

| PN      | Length<br>(m) | Fall<br>(m) | Slope<br>(1:X) | I.Area<br>(ha) | T.E.<br>(mins) | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) | Section Type |
|---------|---------------|-------------|----------------|----------------|----------------|-----------|-------------|-------------|--------------|
| * 1.000 | 22.500        | 0.150       | 150.0          | 0.028          | 3.00           | 0.600     | o           | 225         | Pipe/Conduit |
| * 1.001 | 6.000         | 0.040       | 150.0          | 0.028          | 0.00           | 0.600     | o           | 225         | Pipe/Conduit |
| * 1.002 | 19.200        | 0.096       | 200.0          | 0.029          | 0.00           | 0.600     | o           | 300         | Pipe/Conduit |
| * 1.003 | 7.300         | 0.037       | 197.3          | 0.029          | 0.00           | 0.600     | o           | 300         | Pipe/Conduit |
| * 1.004 | 7.500         | 0.042       | 178.6          | 0.028          | 0.00           | 0.600     | o           | 300         | Pipe/Conduit |
| * 1.005 | 20.000        | 0.060       | 333.3          | 0.029          | 0.00           | 0.600     | o           | 300         | Pipe/Conduit |
| * 2.000 | 11.600        | 0.155       | 74.8           | 0.029          | 3.00           | 0.600     | o           | 225         | Pipe/Conduit |
| * 2.001 | 12.700        | 0.064       | 198.4          | 0.029          | 0.00           | 0.600     | o           | 300         | Pipe/Conduit |
| * 2.002 | 3.000         | 0.030       | 100.0          | 0.029          | 0.00           | 0.600     | o           | 300         | Pipe/Conduit |
| * 1.006 | 5.000         | -1.000      | -5.0           | 0.000          | 0.00           | 0.600     | o           | 300         | Pipe/Conduit |
| * 1.007 | 16.400        | 0.400       | 41.0           | 0.000          | 0.00           | 0.600     | o           | 300         | Pipe/Conduit |
| * 1.008 | 8.000         | 0.260       | 30.8           | 0.000          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |
| * 1.009 | 10.000        | 0.040       | 250.0          | 0.000          | 0.00           | 0.600     | o           | 675         | Pipe/Conduit |

| PN      | US/MH<br>Name | US/CL<br>(m) | US/IL<br>(m) | US<br>C.Depth<br>(m) | DS/CL<br>(m) | DS/IL<br>(m) | DS<br>C.Depth<br>(m) | Ctrl | US/MH<br>(mm) |
|---------|---------------|--------------|--------------|----------------------|--------------|--------------|----------------------|------|---------------|
| * 1.000 |               | D01 4.950    | 3.650        | 1.075                | 4.950        | 3.500        | 1.225                |      | 1200          |
| * 1.001 |               | D02 4.950    | 3.500        | 1.225                | 4.950        | 3.460        | 1.265                |      | 1200          |
| * 1.002 |               | D03 4.950    | 3.385        | 1.265                | 4.950        | 3.289        | 1.361                |      | 1200          |
| * 1.003 |               | D04 4.950    | 3.289        | 1.361                | 4.950        | 3.252        | 1.398                |      | 1200          |
| * 1.004 |               | D05 4.950    | 3.252        | 1.398                | 4.950        | 3.210        | 1.440                |      | 1200          |
| * 1.005 |               | D06 4.950    | 3.210        | 1.440                | 4.800        | 3.150        | 1.350                |      | 1200          |
| * 2.000 |               | D07 4.500    | 3.000        | 1.275                | 4.700        | 2.845        | 1.630                |      | 1200          |
| * 2.001 |               | D08 4.700    | 2.845        | 1.555                | 4.800        | 2.781        | 1.719                |      | 1200          |
| * 2.002 |               | D09 4.800    | 2.706        | 1.794                | 4.800        | 2.676        | 1.824                |      | 1200          |
| * 1.006 | PUMP AND      | GEO 4.800    | 1.200        | 3.300                | 4.500        | 2.200        | 2.000                | Pump | 1200          |
| * 1.007 |               | D10 4.500    | 2.200        | 2.000                | 4.500        | 1.800        | 2.400                |      | 1200          |
| * 1.008 |               | D11 4.500    | 1.800        | 2.550                | 4.500        | 1.540        | 2.810                |      | 1200          |
| * 1.009 | SW-A-04       | 4.500        | 1.015        | 2.810                | 4.500        | 0.975        | 2.850                |      | 1800          |

|                                                                       |                               |                                                                                     |
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| EAS Transport Planning                                                |                               | Page 2                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | BLOCK D<br>SW NETWORK         |  |
| Date 13/07/2022 22:36<br>File 20220712-Block D - Surf...              | Designed by EAS<br>Checked by |                                                                                     |
| Innovyze                                                              | Network 2020.1.3              |                                                                                     |

Manhole Schedules for Storm

| MH Name      | MH CL (m) | MH Depth (m) | MH Connection | MH Diam., L*W (mm) | PN    | Pipe Out Invert Level (m) | Diameter (mm) | PN    | Pipes In Invert Level (m) | Diameter (mm) | Back (mm) |
|--------------|-----------|--------------|---------------|--------------------|-------|---------------------------|---------------|-------|---------------------------|---------------|-----------|
| D01          | 4.950     | 1.300        | Open Manhole  | 1200               | 1.000 | 3.650                     | 225           |       |                           |               |           |
| D02          | 4.950     | 1.450        | Open Manhole  | 1200               | 1.001 | 3.500                     | 225           | 1.000 | 3.500                     | 225           |           |
| D03          | 4.950     | 1.565        | Open Manhole  | 1200               | 1.002 | 3.385                     | 300           | 1.001 | 3.460                     | 225           |           |
| D04          | 4.950     | 1.661        | Open Manhole  | 1200               | 1.003 | 3.289                     | 300           | 1.002 | 3.289                     | 300           |           |
| D05          | 4.950     | 1.698        | Open Manhole  | 1200               | 1.004 | 3.252                     | 300           | 1.003 | 3.252                     | 300           |           |
| D06          | 4.950     | 1.740        | Open Manhole  | 1200               | 1.005 | 3.210                     | 300           | 1.004 | 3.210                     | 300           |           |
| D07          | 4.500     | 1.500        | Open Manhole  | 1200               | 2.000 | 3.000                     | 225           |       |                           |               |           |
| D08          | 4.700     | 1.855        | Open Manhole  | 1200               | 2.001 | 2.845                     | 300           | 2.000 | 2.845                     | 225           |           |
| D09          | 4.800     | 2.094        | Open Manhole  | 1200               | 2.002 | 2.706                     | 300           | 2.001 | 2.781                     | 300           |           |
| PUMP AND GEO | 4.800     | 3.600        | Open Manhole  | 1200               | 1.006 | 1.200                     | 300           | 1.005 | 3.150                     | 300           |           |
|              |           |              |               |                    |       |                           |               | 2.002 | 2.676                     | 300           |           |
| D10          | 4.500     | 2.300        | Open Manhole  | 1200               | 1.007 | 2.200                     | 300           | 1.006 | 2.200                     | 300           |           |
| D11          | 4.500     | 2.700        | Open Manhole  | 1200               | 1.008 | 1.800                     | 150           | 1.007 | 1.800                     | 300           |           |
| SW-A-04      | 4.500     | 3.485        | Open Manhole  | 1800               | 1.009 | 1.015                     | 675           | 1.008 | 1.540                     | 150           |           |
|              | 4.500     | 3.525        | Open Manhole  | 0                  |       | OUTFALL                   |               | 1.009 | 0.975                     | 675           |           |

No coordinates have been specified, layout information cannot be produced.

|                                                                       |                               |                                                                                     |
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| EAS Transport Planning                                                |                               | Page 3                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | BLOCK D<br>SW NETWORK         |  |
| Date 13/07/2022 22:36<br>File 20220712-Block D - Surf...              | Designed by EAS<br>Checked by |                                                                                     |
| Innovyze                                                              | Network 2020.1.3              |                                                                                     |

#### PIPELINE SCHEDULES for Storm

##### Upstream Manhole

| PN    | Hyd<br>Sect | Diam<br>(mm) | MH<br>Name   | C.Level<br>(m) | I.Level<br>(m) | D.Depth<br>(m) | MH<br>Connection | MH DIAM., L*W<br>(mm) |
|-------|-------------|--------------|--------------|----------------|----------------|----------------|------------------|-----------------------|
| 1.000 | o           | 225          | D01          | 4.950          | 3.650          | 1.075          | Open Manhole     | 1200                  |
| 1.001 | o           | 225          | D02          | 4.950          | 3.500          | 1.225          | Open Manhole     | 1200                  |
| 1.002 | o           | 300          | D03          | 4.950          | 3.385          | 1.265          | Open Manhole     | 1200                  |
| 1.003 | o           | 300          | D04          | 4.950          | 3.289          | 1.361          | Open Manhole     | 1200                  |
| 1.004 | o           | 300          | D05          | 4.950          | 3.252          | 1.398          | Open Manhole     | 1200                  |
| 1.005 | o           | 300          | D06          | 4.950          | 3.210          | 1.440          | Open Manhole     | 1200                  |
| 2.000 | o           | 225          | D07          | 4.500          | 3.000          | 1.275          | Open Manhole     | 1200                  |
| 2.001 | o           | 300          | D08          | 4.700          | 2.845          | 1.555          | Open Manhole     | 1200                  |
| 2.002 | o           | 300          | D09          | 4.800          | 2.706          | 1.794          | Open Manhole     | 1200                  |
| 1.006 | o           | 300          | PUMP AND GEO | 4.800          | 1.200          | 3.300          | Open Manhole     | 1200                  |
| 1.007 | o           | 300          | D10          | 4.500          | 2.200          | 2.000          | Open Manhole     | 1200                  |
| 1.008 | o           | 150          | D11          | 4.500          | 1.800          | 2.550          | Open Manhole     | 1200                  |
| 1.009 | o           | 675          | SW-A-04      | 4.500          | 1.015          | 2.810          | Open Manhole     | 1800                  |

##### Downstream Manhole

| PN    | Length<br>(m) | Slope<br>(1:X) | MH<br>Name   | C.Level<br>(m) | I.Level<br>(m) | D.Depth<br>(m) | MH<br>Connection | MH DIAM., L*W<br>(mm) |
|-------|---------------|----------------|--------------|----------------|----------------|----------------|------------------|-----------------------|
| 1.000 | 22.500        | 150.0          | D02          | 4.950          | 3.500          | 1.225          | Open Manhole     | 1200                  |
| 1.001 | 6.000         | 150.0          | D03          | 4.950          | 3.460          | 1.265          | Open Manhole     | 1200                  |
| 1.002 | 19.200        | 200.0          | D04          | 4.950          | 3.289          | 1.361          | Open Manhole     | 1200                  |
| 1.003 | 7.300         | 197.3          | D05          | 4.950          | 3.252          | 1.398          | Open Manhole     | 1200                  |
| 1.004 | 7.500         | 178.6          | D06          | 4.950          | 3.210          | 1.440          | Open Manhole     | 1200                  |
| 1.005 | 20.000        | 333.3          | PUMP AND GEO | 4.800          | 3.150          | 1.350          | Open Manhole     | 1200                  |
| 2.000 | 11.600        | 74.8           | D08          | 4.700          | 2.845          | 1.630          | Open Manhole     | 1200                  |
| 2.001 | 12.700        | 198.4          | D09          | 4.800          | 2.781          | 1.719          | Open Manhole     | 1200                  |
| 2.002 | 3.000         | 100.0          | PUMP AND GEO | 4.800          | 2.676          | 1.824          | Open Manhole     | 1200                  |
| 1.006 | 5.000         | -5.0           | D10          | 4.500          | 2.200          | 2.000          | Open Manhole     | 1200                  |
| 1.007 | 16.400        | 41.0           | D11          | 4.500          | 1.800          | 2.400          | Open Manhole     | 1200                  |
| 1.008 | 8.000         | 30.8           | SW-A-04      | 4.500          | 1.540          | 2.810          | Open Manhole     | 1800                  |
| 1.009 | 10.000        | 250.0          |              | 4.500          | 0.975          | 2.850          | Open Manhole     | 0                     |

#### Surcharged Outfall Details for Storm

| Outfall<br>Pipe Number | Outfall<br>Name | C. Level<br>(m) | I. Level<br>(m) | Min<br>I. Level<br>(m) | D, L<br>(mm) | W<br>(mm) |
|------------------------|-----------------|-----------------|-----------------|------------------------|--------------|-----------|
| 1.009                  |                 | 4.500           | 0.975           | 0.000                  | 0            | 0         |

Datum (m) 1.015 Offset (mins) 0

| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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     |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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    |       |     |       |     |       |     |       |
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| Date 13/07/2022 22:36<br>File 20220712-Block D - Surf...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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    |       |     |       |     |       |     |       |
| <p style="text-align: center;"><u>Surcharged Outfall Details for Storm</u></p> <table><tr><th>Time<br/>(mins)</th><th>Depth<br/>(m)</th><th>Time<br/>(mins)</th><th>Depth<br/>(m)</th><th>Time<br/>(mins)</th><th>Depth<br/>(m)</th><th>Time<br/>(mins)</th><th>Depth<br/>(m)</th><th>Time<br/>(mins)</th><th>Depth<br/>(m)</th><th>Time<br/>(mins)</th><th>Depth<br/>(m)</th></tr><tr><td>1</td><td>0.675</td><td>51</td><td>0.675</td><td>101</td><td>0.675</td><td>151</td><td>0.675</td><td>201</td><td>0.675</td><td>251</td><td>0.675</td></tr><tr><td>2</td><td>0.675</td><td>52</td><td>0.675</td><td>102</td><td>0.675</td><td>152</td><td>0.675</td><td>202</td><td>0.675</td><td>252</td><td>0.675</td></tr><tr><td>3</td><td>0.675</td><td>53</td><td>0.675</td><td>103</td><td>0.675</td><td>153</td><td>0.675</td><td>203</td><td>0.675</td><td>253</td><td>0.675</td></tr><tr><td>4</td><td>0.675</td><td>54</td><td>0.675</td><td>104</td><td>0.675</td><td>154</td><td>0.675</td><td>204</td><td>0.675</td><td>254</td><td>0.675</td></tr><tr><td>5</td><td>0.675</td><td>55</td><td>0.675</td><td>105</td><td>0.675</td><td>155</td><td>0.675</td><td>205</td><td>0.675</td><td>255</td><td>0.675</td></tr><tr><td>6</td><td>0.675</td><td>56</td><td>0.675</td><td>106</td><td>0.675</td><td>156</td><td>0.675</td><td>206</td><td>0.675</td><td>256</td><td>0.675</td></tr><tr><td>7</td><td>0.675</td><td>57</td><td>0.675</td><td>107</td><td>0.675</td><td>157</td><td>0.675</td><td>207</td><td>0.675</td><td>257</td><td>0.675</td></tr><tr><td>8</td><td>0.675</td><td>58</td><td>0.675</td><td>108</td><td>0.675</td><td>158</td><td>0.675</td><td>208</td><td>0.675</td><td>258</td><td>0.675</td></tr><tr><td>9</td><td>0.675</td><td>59</td><td>0.675</td><td>109</td><td>0.675</td><td>159</td><td>0.675</td><td>209</td><td>0.675</td><td>259</td><td>0.675</td></tr><tr><td>10</td><td>0.675</td><td>60</td><td>0.675</td><td>110</td><td>0.675</td><td>160</td><td>0.675</td><td>210</td><td>0.675</td><td>260</td><td>0.675</td></tr><tr><td>11</td><td>0.675</td><td>61</td><td>0.675</td><td>111</td><td>0.675</td><td>161</td><td>0.675</td><td>211</td><td>0.675</td><td>261</td><td>0.675</td></tr><tr><td>12</td><td>0.675</td><td>62</td><td>0.675</td><td>112</td><td>0.675</td><td>162</td><td>0.675</td><td>212</td><td>0.675</td><td>262</td><td>0.675</td></tr><tr><td>13</td><td>0.675</td><td>63</td><td>0.675</td><td>113</td><td>0.675</td><td>163</td><td>0.675</td><td>213</td><td>0.675</td><td>263</td><td>0.675</td></tr><tr><td>14</td><td>0.675</td><td>64</td><td>0.675</td><td>114</td><td>0.675</td><td>164</td><td>0.675</td><td>214</td><td>0.675</td><td>264</td><td>0.675</td></tr><tr><td>15</td><td>0.675</td><td>65</td><td>0.675</td><td>115</td><td>0.675</td><td>165</td><td>0.675</td><td>215</td><td>0.675</td><td>265</td><td>0.675</td></tr><tr><td>16</td><td>0.675</td><td>66</td><td>0.675</td><td>116</td><td>0.675</td><td>166</td><td>0.675</td><td>216</td><td>0.675</td><td>266</td><td>0.675</td></tr><tr><td>17</td><td>0.675</td><td>67</td><td>0.675</td><td>117</td><td>0.675</td><td>167</td><td>0.675</td><td>217</td><td>0.675</td><td>267</td><td>0.675</td></tr><tr><td>18</td><td>0.675</td><td>68</td><td>0.675</td><td>118</td><td>0.675</td><td>168</td><td>0.675</td><td>218</td><td>0.675</td><td>268</td><td>0.675</td></tr><tr><td>19</td><td>0.675</td><td>69</td><td>0.675</td><td>119</td><td>0.675</td><td>169</td><td>0.675</td><td>219</td><td>0.675</td><td>269</td><td>0.675</td></tr><tr><td>20</td><td>0.675</td><td>70</td><td>0.675</td><td>120</td><td>0.675</td><td>170</td><td>0.675</td><td>220</td><td>0.675</td><td>270</td><td>0.675</td></tr><tr><td>21</td><td>0.675</td><td>71</td><td>0.675</td><td>121</td><td>0.675</td><td>171</td><td>0.675</td><td>221</td><td>0.675</td><td>271</td><td>0.675</td></tr><tr><td>22</td><td>0.675</td><td>72</td><td>0.675</td><td>122</td><td>0.675</td><td>172</td><td>0.675</td><td>222</td><td>0.675</td><td>272</td><td>0.675</td></tr><tr><td>23</td><td>0.675</td><td>73</td><td>0.675</td><td>123</td><td>0.675</td><td>173</td><td>0.675</td><td>223</td><td>0.675</td><td>273</td><td>0.675</td></tr><tr><td>24</td><td>0.675</td><td>74</td><td>0.675</td><td>124</td><td>0.675</td><td>174</td><td>0.675</td><td>224</td><td>0.675</td><td>274</td><td>0.675</td></tr><tr><td>25</td><td>0.675</td><td>75</td><td>0.675</td><td>125</td><td>0.675</td><td>175</td><td>0.675</td><td>225</td><td>0.675</td><td>275</td><td>0.675</td></tr><tr><td>26</td><td>0.675</td><td>76</td><td>0.675</td><td>126</td><td>0.675</td><td>176</td><td>0.675</td><td>226</td><td>0.675</td><td>276</td><td>0.675</td></tr><tr><td>27</td><td>0.675</td><td>77</td><td>0.675</td><td>127</td><td>0.675</td><td>177</td><td>0.675</td><td>227</td><td>0.675</td><td>277</td><td>0.675</td></tr><tr><td>28</td><td>0.675</td><td>78</td><td>0.675</td><td>128</td><td>0.675</td><td>178</td><td>0.675</td><td>228</td><td>0.675</td><td>278</td><td>0.675</td></tr><tr><td>29</td><td>0.675</td><td>79</td><td>0.675</td><td>129</td><td>0.675</td><td>179</td><td>0.675</td><td>229</td><td>0.675</td><td>279</td><td>0.675</td></tr><tr><td>30</td><td>0.675</td><td>80</td><td>0.675</td><td>130</td><td>0.675</td><td>180</td><td>0.675</td><td>230</td><td>0.675</td><td>280</td><td>0.675</td></tr><tr><td>31</td><td>0.675</td><td>81</td><td>0.675</td><td>131</td><td>0.675</td><td>181</td><td>0.675</td><td>231</td><td>0.675</td><td>281</td><td>0.675</td></tr><tr><td>32</td><td>0.675</td><td>82</td><td>0.675</td><td>132</td><td>0.675</td><td>182</td><td>0.675</td><td>232</td><td>0.675</td><td>282</td><td>0.675</td></tr><tr><td>33</td><td>0.675</td><td>83</td><td>0.675</td><td>133</td><td>0.675</td><td>183</td><td>0.675</td><td>233</td><td>0.675</td><td>283</td><td>0.675</td></tr><tr><td>34</td><td>0.675</td><td>84</td><td>0.675</td><td>134</td><td>0.675</td><td>184</td><td>0.675</td><td>234</td><td>0.675</td><td>284</td><td>0.675</td></tr><tr><td>35</td><td>0.675</td><td>85</td><td>0.675</td><td>135</td><td>0.675</td><td>185</td><td>0.675</td><td>235</td><td>0.675</td><td>285</td><td>0.675</td></tr><tr><td>36</td><td>0.675</td><td>86</td><td>0.675</td><td>136</td><td>0.675</td><td>186</td><td>0.675</td><td>236</td><td>0.675</td><td>286</td><td>0.675</td></tr><tr><td>37</td><td>0.675</td><td>87</td><td>0.675</td><td>137</td><td>0.675</td><td>187</td><td>0.675</td><td>237</td><td>0.675</td><td>287</td><td>0.675</td></tr><tr><td>38</td><td>0.675</td><td>88</td><td>0.675</td><td>138</td><td>0.675</td><td>188</td><td>0.675</td><td>238</td><td>0.675</td><td>288</td><td>0.675</td></tr><tr><td>39</td><td>0.675</td><td>89</td><td>0.675</td><td>139</td><td>0.675</td><td>189</td><td>0.675</td><td>239</td><td>0.675</td><td>289</td><td>0.675</td></tr><tr><td>40</td><td>0.675</td><td>90</td><td>0.675</td><td>140</td><td>0.675</td><td>190</td><td>0.675</td><td>240</td><td>0.675</td><td>290</td><td>0.675</td></tr><tr><td>41</td><td>0.675</td><td>91</td><td>0.675</td><td>141</td><td>0.675</td><td>191</td><td>0.675</td><td>241</td><td>0.675</td><td>291</td><td>0.675</td></tr><tr><td>42</td><td>0.675</td><td>92</td><td>0.675</td><td>142</td><td>0.675</td><td>192</td><td>0.675</td><td>242</td><td>0.675</td><td>292</td><td>0.675</td></tr><tr><td>43</td><td>0.675</td><td>93</td><td>0.675</td><td>143</td><td>0.675</td><td>193</td><td>0.675</td><td>243</td><td>0.675</td><td>293</td><td>0.675</td></tr><tr><td>44</td><td>0.675</td><td>94</td><td>0.675</td><td>144</td><td>0.675</td><td>194</td><td>0.675</td><td>244</td><td>0.675</td><td>294</td><td>0.675</td></tr><tr><td>45</td><td>0.675</td><td>95</td><td>0.675</td><td>145</td><td>0.675</td><td>195</td><td>0.675</td><td>245</td><td>0.675</td><td>295</td><td>0.675</td></tr><tr><td>46</td><td>0.675</td><td>96</td><td>0.675</td><td>146</td><td>0.675</td><td>196</td><td>0.675</td><td>246</td><td>0.675</td><td>296</td><td>0.675</td></tr><tr><td>47</td><td>0.675</td><td>97</td><td>0.675</td><td>147</td><td>0.675</td><td>197</td><td>0.675</td><td>247</td><td>0.675</td><td>297</td><td>0.675</td></tr><tr><td>48</td><td>0.675</td><td>98</td><td>0.675</td><td>148</td><td>0.675</td><td>198</td><td>0.675</td><td>248</td><td>0.675</td><td>298</td><td>0.675</td></tr><tr><td>49</td><td>0.675</td><td>99</td><td>0.675</td><td>149</td><td>0.675</td><td>199</td><td>0.675</td><td>249</td><td>0.675</td><td>299</td><td>0.675</td></tr><tr><td>50</td><td>0.675</td><td>100</td><td>0.675</td><td>150</td><td>0.675</td><td>200</td><td>0.675</td><td>250</td><td>0.675</td><td>300</td><td>0.675</td></tr></table> |              |                |              |                               |              |                |              |                |              |                                                                                     |              | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | 1 | 0.675 | 51 | 0.675 | 101 | 0.675 | 151 | 0.675 | 201 | 0.675 | 251 | 0.675 | 2 | 0.675 | 52 | 0.675 | 102 | 0.675 | 152 | 0.675 | 202 | 0.675 | 252 | 0.675 | 3 | 0.675 | 53 | 0.675 | 103 | 0.675 | 153 | 0.675 | 203 | 0.675 | 253 | 0.675 | 4 | 0.675 | 54 | 0.675 | 104 | 0.675 | 154 | 0.675 | 204 | 0.675 | 254 | 0.675 | 5 | 0.675 | 55 | 0.675 | 105 | 0.675 | 155 | 0.675 | 205 | 0.675 | 255 | 0.675 | 6 | 0.675 | 56 | 0.675 | 106 | 0.675 | 156 | 0.675 | 206 | 0.675 | 256 | 0.675 | 7 | 0.675 | 57 | 0.675 | 107 | 0.675 | 157 | 0.675 | 207 | 0.675 | 257 | 0.675 | 8 | 0.675 | 58 | 0.675 | 108 | 0.675 | 158 | 0.675 | 208 | 0.675 | 258 | 0.675 | 9 | 0.675 | 59 | 0.675 | 109 | 0.675 | 159 | 0.675 | 209 | 0.675 | 259 | 0.675 | 10 | 0.675 | 60 | 0.675 | 110 | 0.675 | 160 | 0.675 | 210 | 0.675 | 260 | 0.675 | 11 | 0.675 | 61 | 0.675 | 111 | 0.675 | 161 | 0.675 | 211 | 0.675 | 261 | 0.675 | 12 | 0.675 | 62 | 0.675 | 112 | 0.675 | 162 | 0.675 | 212 | 0.675 | 262 | 0.675 | 13 | 0.675 | 63 | 0.675 | 113 | 0.675 | 163 | 0.675 | 213 | 0.675 | 263 | 0.675 | 14 | 0.675 | 64 | 0.675 | 114 | 0.675 | 164 | 0.675 | 214 | 0.675 | 264 | 0.675 | 15 | 0.675 | 65 | 0.675 | 115 | 0.675 | 165 | 0.675 | 215 | 0.675 | 265 | 0.675 | 16 | 0.675 | 66 | 0.675 | 116 | 0.675 | 166 | 0.675 | 216 | 0.675 | 266 | 0.675 | 17 | 0.675 | 67 | 0.675 | 117 | 0.675 | 167 | 0.675 | 217 | 0.675 | 267 | 0.675 | 18 | 0.675 | 68 | 0.675 | 118 | 0.675 | 168 | 0.675 | 218 | 0.675 | 268 | 0.675 | 19 | 0.675 | 69 | 0.675 | 119 | 0.675 | 169 | 0.675 | 219 | 0.675 | 269 | 0.675 | 20 | 0.675 | 70 | 0.675 | 120 | 0.675 | 170 | 0.675 | 220 | 0.675 | 270 | 0.675 | 21 | 0.675 | 71 | 0.675 | 121 | 0.675 | 171 | 0.675 | 221 | 0.675 | 271 | 0.675 | 22 | 0.675 | 72 | 0.675 | 122 | 0.675 | 172 | 0.675 | 222 | 0.675 | 272 | 0.675 | 23 | 0.675 | 73 | 0.675 | 123 | 0.675 | 173 | 0.675 | 223 | 0.675 | 273 | 0.675 | 24 | 0.675 | 74 | 0.675 | 124 | 0.675 | 174 | 0.675 | 224 | 0.675 | 274 | 0.675 | 25 | 0.675 | 75 | 0.675 | 125 | 0.675 | 175 | 0.675 | 225 | 0.675 | 275 | 0.675 | 26 | 0.675 | 76 | 0.675 | 126 | 0.675 | 176 | 0.675 | 226 | 0.675 | 276 | 0.675 | 27 | 0.675 | 77 | 0.675 | 127 | 0.675 | 177 | 0.675 | 227 | 0.675 | 277 | 0.675 | 28 | 0.675 | 78 | 0.675 | 128 | 0.675 | 178 | 0.675 | 228 | 0.675 | 278 | 0.675 | 29 | 0.675 | 79 | 0.675 | 129 | 0.675 | 179 | 0.675 | 229 | 0.675 | 279 | 0.675 | 30 | 0.675 | 80 | 0.675 | 130 | 0.675 | 180 | 0.675 | 230 | 0.675 | 280 | 0.675 | 31 | 0.675 | 81 | 0.675 | 131 | 0.675 | 181 | 0.675 | 231 | 0.675 | 281 | 0.675 | 32 | 0.675 | 82 | 0.675 | 132 | 0.675 | 182 | 0.675 | 232 | 0.675 | 282 | 0.675 | 33 | 0.675 | 83 | 0.675 | 133 | 0.675 | 183 | 0.675 | 233 | 0.675 | 283 | 0.675 | 34 | 0.675 | 84 | 0.675 | 134 | 0.675 | 184 | 0.675 | 234 | 0.675 | 284 | 0.675 | 35 | 0.675 | 85 | 0.675 | 135 | 0.675 | 185 | 0.675 | 235 | 0.675 | 285 | 0.675 | 36 | 0.675 | 86 | 0.675 | 136 | 0.675 | 186 | 0.675 | 236 | 0.675 | 286 | 0.675 | 37 | 0.675 | 87 | 0.675 | 137 | 0.675 | 187 | 0.675 | 237 | 0.675 | 287 | 0.675 | 38 | 0.675 | 88 | 0.675 | 138 | 0.675 | 188 | 0.675 | 238 | 0.675 | 288 | 0.675 | 39 | 0.675 | 89 | 0.675 | 139 | 0.675 | 189 | 0.675 | 239 | 0.675 | 289 | 0.675 | 40 | 0.675 | 90 | 0.675 | 140 | 0.675 | 190 | 0.675 | 240 | 0.675 | 290 | 0.675 | 41 | 0.675 | 91 | 0.675 | 141 | 0.675 | 191 | 0.675 | 241 | 0.675 | 291 | 0.675 | 42 | 0.675 | 92 | 0.675 | 142 | 0.675 | 192 | 0.675 | 242 | 0.675 | 292 | 0.675 | 43 | 0.675 | 93 | 0.675 | 143 | 0.675 | 193 | 0.675 | 243 | 0.675 | 293 | 0.675 | 44 | 0.675 | 94 | 0.675 | 144 | 0.675 | 194 | 0.675 | 244 | 0.675 | 294 | 0.675 | 45 | 0.675 | 95 | 0.675 | 145 | 0.675 | 195 | 0.675 | 245 | 0.675 | 295 | 0.675 | 46 | 0.675 | 96 | 0.675 | 146 | 0.675 | 196 | 0.675 | 246 | 0.675 | 296 | 0.675 | 47 | 0.675 | 97 | 0.675 | 147 | 0.675 | 197 | 0.675 | 247 | 0.675 | 297 | 0.675 | 48 | 0.675 | 98 | 0.675 | 148 | 0.675 | 198 | 0.675 | 248 | 0.675 | 298 | 0.675 | 49 | 0.675 | 99 | 0.675 | 149 | 0.675 | 199 | 0.675 | 249 | 0.675 | 299 | 0.675 | 50 | 0.675 | 100 | 0.675 | 150 | 0.675 | 200 | 0.675 | 250 | 0.675 | 300 | 0.675 |
| Time<br>(mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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     |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 51             | 0.675        | 101                           | 0.675        | 151            | 0.675        | 201            | 0.675        | 251                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 52             | 0.675        | 102                           | 0.675        | 152            | 0.675        | 202            | 0.675        | 252                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |  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     |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 56             | 0.675        | 106                           | 0.675        | 156            | 0.675        | 206            | 0.675        | 256                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 57             | 0.675        | 107                           | 0.675        | 157            | 0.675        | 207            | 0.675        | 257                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |  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     |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 60             | 0.675        | 110                           | 0.675        | 160            | 0.675        | 210            | 0.675        | 260                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 61             | 0.675        | 111                           | 0.675        | 161            | 0.675        | 211            | 0.675        | 261                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |  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     |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 65             | 0.675        | 115                           | 0.675        | 165            | 0.675        | 215            | 0.675        | 265                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 66             | 0.675        | 116                           | 0.675        | 166            | 0.675        | 216            | 0.675        | 266                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 67             | 0.675        | 117                           | 0.675        | 167            | 0.675        | 217            | 0.675        | 267                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 69             | 0.675        | 119                           | 0.675        | 169            | 0.675        | 219            | 0.675        | 269                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 70             | 0.675        | 120                           | 0.675        | 170            | 0.675        | 220            | 0.675        | 270                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 71             | 0.675        | 121                           | 0.675        | 171            | 0.675        | 221            | 0.675        | 271                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 72             | 0.675        | 122                           | 0.675        | 172            | 0.675        | 222            | 0.675        | 272                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 73             | 0.675        | 123                           | 0.675        | 173            | 0.675        | 223            | 0.675        | 273                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 74             | 0.675        | 124                           | 0.675        | 174            | 0.675        | 224            | 0.675        | 274                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 75             | 0.675        | 125                           | 0.675        | 175            | 0.675        | 225            | 0.675        | 275                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 76             | 0.675        | 126                           | 0.675        | 176            | 0.675        | 226            | 0.675        | 276                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 77             | 0.675        | 127                           | 0.675        | 177            | 0.675        | 227            | 0.675        | 277                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 78             | 0.675        | 128                           | 0.675        | 178            | 0.675        | 228            | 0.675        | 278                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 79             | 0.675        | 129                           | 0.675        | 179            | 0.675        | 229            | 0.675        | 279                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 80             | 0.675        | 130                           | 0.675        | 180            | 0.675        | 230            | 0.675        | 280                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 81             | 0.675        | 131                           | 0.675        | 181            | 0.675        | 231            | 0.675        | 281                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 82             | 0.675        | 132                           | 0.675        | 182            | 0.675        | 232            | 0.675        | 282                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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     |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 84             | 0.675        | 134                           | 0.675        | 184            | 0.675        | 234            | 0.675        | 284                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 85             | 0.675        | 135                           | 0.675        | 185            | 0.675        | 235            | 0.675        | 285                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 88             | 0.675        | 138                           | 0.675        | 188            | 0.675        | 238            | 0.675        | 288                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 89             | 0.675        | 139                           | 0.675        | 189            | 0.675        | 239            | 0.675        | 289                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 90             | 0.675        | 140                           | 0.675        | 190            | 0.675        | 240            | 0.675        | 290                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 91             | 0.675        | 141                           | 0.675        | 191            | 0.675        | 241            | 0.675        | 291                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 93             | 0.675        | 143                           | 0.675        | 193            | 0.675        | 243            | 0.675        | 293                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 94             | 0.675        | 144                           | 0.675        | 194            | 0.675        | 244            | 0.675        | 294                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 95             | 0.675        | 145                           | 0.675        | 195            | 0.675        | 245            | 0.675        | 295                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 96             | 0.675        | 146                           | 0.675        | 196            | 0.675        | 246            | 0.675        | 296                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 97             | 0.675        | 147                           | 0.675        | 197            | 0.675        | 247            | 0.675        | 297                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.675        | 98             | 0.675        | 148                           | 0.675        | 198            | 0.675        | 248            | 0.675        | 298                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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| 49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.675        | 99             | 0.675        | 149                           | 0.675        | 199            | 0.675        | 249            | 0.675        | 299                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     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| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.675        | 100            | 0.675        | 150                           | 0.675        | 200            | 0.675        | 250            | 0.675        | 300                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |   |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |       |    |       |    |       |     |       |     |       |     |       |     |  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| ©1982-2020 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|                                                                       |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
|-----------------------------------------------------------------------|--------------|----------------|--------------|-------------------------------|--------------|----------------|--------------|----------------|--------------|-------------------------------------------------------------------------------------|--------------|
| EAS Transport Planning                                                |              |                |              |                               |              |                |              |                |              | Page 5                                                                              |              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |              |                |              | BLOCK D<br>SW NETWORK         |              |                |              |                |              |  |              |
| Date 13/07/2022 22:36<br>File 20220712-Block D - Surf...              |              |                |              | Designed by EAS<br>Checked by |              |                |              |                |              |                                                                                     |              |
| Innovyze                                                              |              |                |              | Network 2020.1.3              |              |                |              |                |              |                                                                                     |              |
| Surcharged Outfall Details for Storm                                  |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
| Time<br>(mins)                                                        | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) |
| 301                                                                   | 0.675        | 351            | 0.675        | 401                           | 0.675        | 451            | 0.675        | 501            | 0.675        | 551                                                                                 | 0.675        |
| 302                                                                   | 0.675        | 352            | 0.675        | 402                           | 0.675        | 452            | 0.675        | 502            | 0.675        | 552                                                                                 | 0.675        |
| 303                                                                   | 0.675        | 353            | 0.675        | 403                           | 0.675        | 453            | 0.675        | 503            | 0.675        | 553                                                                                 | 0.675        |
| 304                                                                   | 0.675        | 354            | 0.675        | 404                           | 0.675        | 454            | 0.675        | 504            | 0.675        | 554                                                                                 | 0.675        |
| 305                                                                   | 0.675        | 355            | 0.675        | 405                           | 0.675        | 455            | 0.675        | 505            | 0.675        | 555                                                                                 | 0.675        |
| 306                                                                   | 0.675        | 356            | 0.675        | 406                           | 0.675        | 456            | 0.675        | 506            | 0.675        | 556                                                                                 | 0.675        |
| 307                                                                   | 0.675        | 357            | 0.675        | 407                           | 0.675        | 457            | 0.675        | 507            | 0.675        | 557                                                                                 | 0.675        |
| 308                                                                   | 0.675        | 358            | 0.675        | 408                           | 0.675        | 458            | 0.675        | 508            | 0.675        | 558                                                                                 | 0.675        |
| 309                                                                   | 0.675        | 359            | 0.675        | 409                           | 0.675        | 459            | 0.675        | 509            | 0.675        | 559                                                                                 | 0.675        |
| 310                                                                   | 0.675        | 360            | 0.675        | 410                           | 0.675        | 460            | 0.675        | 510            | 0.675        | 560                                                                                 | 0.675        |
| 311                                                                   | 0.675        | 361            | 0.675        | 411                           | 0.675        | 461            | 0.675        | 511            | 0.675        | 561                                                                                 | 0.675        |
| 312                                                                   | 0.675        | 362            | 0.675        | 412                           | 0.675        | 462            | 0.675        | 512            | 0.675        | 562                                                                                 | 0.675        |
| 313                                                                   | 0.675        | 363            | 0.675        | 413                           | 0.675        | 463            | 0.675        | 513            | 0.675        | 563                                                                                 | 0.675        |
| 314                                                                   | 0.675        | 364            | 0.675        | 414                           | 0.675        | 464            | 0.675        | 514            | 0.675        | 564                                                                                 | 0.675        |
| 315                                                                   | 0.675        | 365            | 0.675        | 415                           | 0.675        | 465            | 0.675        | 515            | 0.675        | 565                                                                                 | 0.675        |
| 316                                                                   | 0.675        | 366            | 0.675        | 416                           | 0.675        | 466            | 0.675        | 516            | 0.675        | 566                                                                                 | 0.675        |
| 317                                                                   | 0.675        | 367            | 0.675        | 417                           | 0.675        | 467            | 0.675        | 517            | 0.675        | 567                                                                                 | 0.675        |
| 318                                                                   | 0.675        | 368            | 0.675        | 418                           | 0.675        | 468            | 0.675        | 518            | 0.675        | 568                                                                                 | 0.675        |
| 319                                                                   | 0.675        | 369            | 0.675        | 419                           | 0.675        | 469            | 0.675        | 519            | 0.675        | 569                                                                                 | 0.675        |
| 320                                                                   | 0.675        | 370            | 0.675        | 420                           | 0.675        | 470            | 0.675        | 520            | 0.675        | 570                                                                                 | 0.675        |
| 321                                                                   | 0.675        | 371            | 0.675        | 421                           | 0.675        | 471            | 0.675        | 521            | 0.675        | 571                                                                                 | 0.675        |
| 322                                                                   | 0.675        | 372            | 0.675        | 422                           | 0.675        | 472            | 0.675        | 522            | 0.675        | 572                                                                                 | 0.675        |
| 323                                                                   | 0.675        | 373            | 0.675        | 423                           | 0.675        | 473            | 0.675        | 523            | 0.675        | 573                                                                                 | 0.675        |
| 324                                                                   | 0.675        | 374            | 0.675        | 424                           | 0.675        | 474            | 0.675        | 524            | 0.675        | 574                                                                                 | 0.675        |
| 325                                                                   | 0.675        | 375            | 0.675        | 425                           | 0.675        | 475            | 0.675        | 525            | 0.675        | 575                                                                                 | 0.675        |
| 326                                                                   | 0.675        | 376            | 0.675        | 426                           | 0.675        | 476            | 0.675        | 526            | 0.675        | 576                                                                                 | 0.675        |
| 327                                                                   | 0.675        | 377            | 0.675        | 427                           | 0.675        | 477            | 0.675        | 527            | 0.675        | 577                                                                                 | 0.675        |
| 328                                                                   | 0.675        | 378            | 0.675        | 428                           | 0.675        | 478            | 0.675        | 528            | 0.675        | 578                                                                                 | 0.675        |
| 329                                                                   | 0.675        | 379            | 0.675        | 429                           | 0.675        | 479            | 0.675        | 529            | 0.675        | 579                                                                                 | 0.675        |
| 330                                                                   | 0.675        | 380            | 0.675        | 430                           | 0.675        | 480            | 0.675        | 530            | 0.675        | 580                                                                                 | 0.675        |
| 331                                                                   | 0.675        | 381            | 0.675        | 431                           | 0.675        | 481            | 0.675        | 531            | 0.675        | 581                                                                                 | 0.675        |
| 332                                                                   | 0.675        | 382            | 0.675        | 432                           | 0.675        | 482            | 0.675        | 532            | 0.675        | 582                                                                                 | 0.675        |
| 333                                                                   | 0.675        | 383            | 0.675        | 433                           | 0.675        | 483            | 0.675        | 533            | 0.675        | 583                                                                                 | 0.675        |
| 334                                                                   | 0.675        | 384            | 0.675        | 434                           | 0.675        | 484            | 0.675        | 534            | 0.675        | 584                                                                                 | 0.675        |
| 335                                                                   | 0.675        | 385            | 0.675        | 435                           | 0.675        | 485            | 0.675        | 535            | 0.675        | 585                                                                                 | 0.675        |
| 336                                                                   | 0.675        | 386            | 0.675        | 436                           | 0.675        | 486            | 0.675        | 536            | 0.675        | 586                                                                                 | 0.675        |
| 337                                                                   | 0.675        | 387            | 0.675        | 437                           | 0.675        | 487            | 0.675        | 537            | 0.675        | 587                                                                                 | 0.675        |
| 338                                                                   | 0.675        | 388            | 0.675        | 438                           | 0.675        | 488            | 0.675        | 538            | 0.675        | 588                                                                                 | 0.675        |
| 339                                                                   | 0.675        | 389            | 0.675        | 439                           | 0.675        | 489            | 0.675        | 539            | 0.675        | 589                                                                                 | 0.675        |
| 340                                                                   | 0.675        | 390            | 0.675        | 440                           | 0.675        | 490            | 0.675        | 540            | 0.675        | 590                                                                                 | 0.675        |
| 341                                                                   | 0.675        | 391            | 0.675        | 441                           | 0.675        | 491            | 0.675        | 541            | 0.675        | 591                                                                                 | 0.675        |
| 342                                                                   | 0.675        | 392            | 0.675        | 442                           | 0.675        | 492            | 0.675        | 542            | 0.675        | 592                                                                                 | 0.675        |
| 343                                                                   | 0.675        | 393            | 0.675        | 443                           | 0.675        | 493            | 0.675        | 543            | 0.675        | 593                                                                                 | 0.675        |
| 344                                                                   | 0.675        | 394            | 0.675        | 444                           | 0.675        | 494            | 0.675        | 544            | 0.675        | 594                                                                                 | 0.675        |
| 345                                                                   | 0.675        | 395            | 0.675        | 445                           | 0.675        | 495            | 0.675        | 545            | 0.675        | 595                                                                                 | 0.675        |
| 346                                                                   | 0.675        | 396            | 0.675        | 446                           | 0.675        | 496            | 0.675        | 546            | 0.675        | 596                                                                                 | 0.675        |
| 347                                                                   | 0.675        | 397            | 0.675        | 447                           | 0.675        | 497            | 0.675        | 547            | 0.675        | 597                                                                                 | 0.675        |
| 348                                                                   | 0.675        | 398            | 0.675        | 448                           | 0.675        | 498            | 0.675        | 548            | 0.675        | 598                                                                                 | 0.675        |
| 349                                                                   | 0.675        | 399            | 0.675        | 449                           | 0.675        | 499            | 0.675        | 549            | 0.675        | 599                                                                                 | 0.675        |
| 350                                                                   | 0.675        | 400            | 0.675        | 450                           | 0.675        | 500            | 0.675        | 550            | 0.675        | 600                                                                                 | 0.675        |
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| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                |              | Network 2020.1.3              |              |                |              |                |              |                                                                                     |              |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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   |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |
| <p style="text-align: center;"><u>Surcharged Outfall Details for Storm</u></p> <table><tr><th>Time<br/>(mins)</th><th>Depth<br/>(m)</th><th>Time<br/>(mins)</th><th>Depth<br/>(m)</th><th>Time<br/>(mins)</th><th>Depth<br/>(m)</th><th>Time<br/>(mins)</th><th>Depth<br/>(m)</th><th>Time<br/>(mins)</th><th>Depth<br/>(m)</th><th>Time<br/>(mins)</th><th>Depth<br/>(m)</th></tr><tr><td>601</td><td>0.675</td><td>651</td><td>0.675</td><td>701</td><td>0.675</td><td>751</td><td>0.675</td><td>801</td><td>0.675</td><td>851</td><td>0.675</td></tr><tr><td>602</td><td>0.675</td><td>652</td><td>0.675</td><td>702</td><td>0.675</td><td>752</td><td>0.675</td><td>802</td><td>0.675</td><td>852</td><td>0.675</td></tr><tr><td>603</td><td>0.675</td><td>653</td><td>0.675</td><td>703</td><td>0.675</td><td>753</td><td>0.675</td><td>803</td><td>0.675</td><td>853</td><td>0.675</td></tr><tr><td>604</td><td>0.675</td><td>654</td><td>0.675</td><td>704</td><td>0.675</td><td>754</td><td>0.675</td><td>804</td><td>0.675</td><td>854</td><td>0.675</td></tr><tr><td>605</td><td>0.675</td><td>655</td><td>0.675</td><td>705</td><td>0.675</td><td>755</td><td>0.675</td><td>805</td><td>0.675</td><td>855</td><td>0.675</td></tr><tr><td>606</td><td>0.675</td><td>656</td><td>0.675</td><td>706</td><td>0.675</td><td>756</td><td>0.675</td><td>806</td><td>0.675</td><td>856</td><td>0.675</td></tr><tr><td>607</td><td>0.675</td><td>657</td><td>0.675</td><td>707</td><td>0.675</td><td>757</td><td>0.675</td><td>807</td><td>0.675</td><td>857</td><td>0.675</td></tr><tr><td>608</td><td>0.675</td><td>658</td><td>0.675</td><td>708</td><td>0.675</td><td>758</td><td>0.675</td><td>808</td><td>0.675</td><td>858</td><td>0.675</td></tr><tr><td>609</td><td>0.675</td><td>659</td><td>0.675</td><td>709</td><td>0.675</td><td>759</td><td>0.675</td><td>809</td><td>0.675</td><td>859</td><td>0.675</td></tr><tr><td>610</td><td>0.675</td><td>660</td><td>0.675</td><td>710</td><td>0.675</td><td>760</td><td>0.675</td><td>810</td><td>0.675</td><td>860</td><td>0.675</td></tr><tr><td>611</td><td>0.675</td><td>661</td><td>0.675</td><td>711</td><td>0.675</td><td>761</td><td>0.675</td><td>811</td><td>0.675</td><td>861</td><td>0.675</td></tr><tr><td>612</td><td>0.675</td><td>662</td><td>0.675</td><td>712</td><td>0.675</td><td>762</td><td>0.675</td><td>812</td><td>0.675</td><td>862</td><td>0.675</td></tr><tr><td>613</td><td>0.675</td><td>663</td><td>0.675</td><td>713</td><td>0.675</td><td>763</td><td>0.675</td><td>813</td><td>0.675</td><td>863</td><td>0.675</td></tr><tr><td>614</td><td>0.675</td><td>664</td><td>0.675</td><td>714</td><td>0.675</td><td>764</td><td>0.675</td><td>814</td><td>0.675</td><td>864</td><td>0.675</td></tr><tr><td>615</td><td>0.675</td><td>665</td><td>0.675</td><td>715</td><td>0.675</td><td>765</td><td>0.675</td><td>815</td><td>0.675</td><td>865</td><td>0.675</td></tr><tr><td>616</td><td>0.675</td><td>666</td><td>0.675</td><td>716</td><td>0.675</td><td>766</td><td>0.675</td><td>816</td><td>0.675</td><td>866</td><td>0.675</td></tr><tr><td>617</td><td>0.675</td><td>667</td><td>0.675</td><td>717</td><td>0.675</td><td>767</td><td>0.675</td><td>817</td><td>0.675</td><td>867</td><td>0.675</td></tr><tr><td>618</td><td>0.675</td><td>668</td><td>0.675</td><td>718</td><td>0.675</td><td>768</td><td>0.675</td><td>818</td><td>0.675</td><td>868</td><td>0.675</td></tr><tr><td>619</td><td>0.675</td><td>669</td><td>0.675</td><td>719</td><td>0.675</td><td>769</td><td>0.675</td><td>819</td><td>0.675</td><td>869</td><td>0.675</td></tr><tr><td>620</td><td>0.675</td><td>670</td><td>0.675</td><td>720</td><td>0.675</td><td>770</td><td>0.675</td><td>820</td><td>0.675</td><td>870</td><td>0.675</td></tr><tr><td>621</td><td>0.675</td><td>671</td><td>0.675</td><td>721</td><td>0.675</td><td>771</td><td>0.675</td><td>821</td><td>0.675</td><td>871</td><td>0.675</td></tr><tr><td>622</td><td>0.675</td><td>672</td><td>0.675</td><td>722</td><td>0.675</td><td>772</td><td>0.675</td><td>822</td><td>0.675</td><td>872</td><td>0.675</td></tr><tr><td>623</td><td>0.675</td><td>673</td><td>0.675</td><td>723</td><td>0.675</td><td>773</td><td>0.675</td><td>823</td><td>0.675</td><td>873</td><td>0.675</td></tr><tr><td>624</td><td>0.675</td><td>674</td><td>0.675</td><td>724</td><td>0.675</td><td>774</td><td>0.675</td><td>824</td><td>0.675</td><td>874</td><td>0.675</td></tr><tr><td>625</td><td>0.675</td><td>675</td><td>0.675</td><td>725</td><td>0.675</td><td>775</td><td>0.675</td><td>825</td><td>0.675</td><td>875</td><td>0.675</td></tr><tr><td>626</td><td>0.675</td><td>676</td><td>0.675</td><td>726</td><td>0.675</td><td>776</td><td>0.675</td><td>826</td><td>0.675</td><td>876</td><td>0.675</td></tr><tr><td>627</td><td>0.675</td><td>677</td><td>0.675</td><td>727</td><td>0.675</td><td>777</td><td>0.675</td><td>827</td><td>0.675</td><td>877</td><td>0.675</td></tr><tr><td>628</td><td>0.675</td><td>678</td><td>0.675</td><td>728</td><td>0.675</td><td>778</td><td>0.675</td><td>828</td><td>0.675</td><td>878</td><td>0.675</td></tr><tr><td>629</td><td>0.675</td><td>679</td><td>0.675</td><td>729</td><td>0.675</td><td>779</td><td>0.675</td><td>829</td><td>0.675</td><td>879</td><td>0.675</td></tr><tr><td>630</td><td>0.675</td><td>680</td><td>0.675</td><td>730</td><td>0.675</td><td>780</td><td>0.675</td><td>830</td><td>0.675</td><td>880</td><td>0.675</td></tr><tr><td>631</td><td>0.675</td><td>681</td><td>0.675</td><td>731</td><td>0.675</td><td>781</td><td>0.675</td><td>831</td><td>0.675</td><td>881</td><td>0.675</td></tr><tr><td>632</td><td>0.675</td><td>682</td><td>0.675</td><td>732</td><td>0.675</td><td>782</td><td>0.675</td><td>832</td><td>0.675</td><td>882</td><td>0.675</td></tr><tr><td>633</td><td>0.675</td><td>683</td><td>0.675</td><td>733</td><td>0.675</td><td>783</td><td>0.675</td><td>833</td><td>0.675</td><td>883</td><td>0.675</td></tr><tr><td>634</td><td>0.675</td><td>684</td><td>0.675</td><td>734</td><td>0.675</td><td>784</td><td>0.675</td><td>834</td><td>0.675</td><td>884</td><td>0.675</td></tr><tr><td>635</td><td>0.675</td><td>685</td><td>0.675</td><td>735</td><td>0.675</td><td>785</td><td>0.675</td><td>835</td><td>0.675</td><td>885</td><td>0.675</td></tr><tr><td>636</td><td>0.675</td><td>686</td><td>0.675</td><td>736</td><td>0.675</td><td>786</td><td>0.675</td><td>836</td><td>0.675</td><td>886</td><td>0.675</td></tr><tr><td>637</td><td>0.675</td><td>687</td><td>0.675</td><td>737</td><td>0.675</td><td>787</td><td>0.675</td><td>837</td><td>0.675</td><td>887</td><td>0.675</td></tr><tr><td>638</td><td>0.675</td><td>688</td><td>0.675</td><td>738</td><td>0.675</td><td>788</td><td>0.675</td><td>838</td><td>0.675</td><td>888</td><td>0.675</td></tr><tr><td>639</td><td>0.675</td><td>689</td><td>0.675</td><td>739</td><td>0.675</td><td>789</td><td>0.675</td><td>839</td><td>0.675</td><td>889</td><td>0.675</td></tr><tr><td>640</td><td>0.675</td><td>690</td><td>0.675</td><td>740</td><td>0.675</td><td>790</td><td>0.675</td><td>840</td><td>0.675</td><td>890</td><td>0.675</td></tr><tr><td>641</td><td>0.675</td><td>691</td><td>0.675</td><td>741</td><td>0.675</td><td>791</td><td>0.675</td><td>841</td><td>0.675</td><td>891</td><td>0.675</td></tr><tr><td>642</td><td>0.675</td><td>692</td><td>0.675</td><td>742</td><td>0.675</td><td>792</td><td>0.675</td><td>842</td><td>0.675</td><td>892</td><td>0.675</td></tr><tr><td>643</td><td>0.675</td><td>693</td><td>0.675</td><td>743</td><td>0.675</td><td>793</td><td>0.675</td><td>843</td><td>0.675</td><td>893</td><td>0.675</td></tr><tr><td>644</td><td>0.675</td><td>694</td><td>0.675</td><td>744</td><td>0.675</td><td>794</td><td>0.675</td><td>844</td><td>0.675</td><td>894</td><td>0.675</td></tr><tr><td>645</td><td>0.675</td><td>695</td><td>0.675</td><td>745</td><td>0.675</td><td>795</td><td>0.675</td><td>845</td><td>0.675</td><td>895</td><td>0.675</td></tr><tr><td>646</td><td>0.675</td><td>696</td><td>0.675</td><td>746</td><td>0.675</td><td>796</td><td>0.675</td><td>846</td><td>0.675</td><td>896</td><td>0.675</td></tr><tr><td>647</td><td>0.675</td><td>697</td><td>0.675</td><td>747</td><td>0.675</td><td>797</td><td>0.675</td><td>847</td><td>0.675</td><td>897</td><td>0.675</td></tr><tr><td>648</td><td>0.675</td><td>698</td><td>0.675</td><td>748</td><td>0.675</td><td>798</td><td>0.675</td><td>848</td><td>0.675</td><td>898</td><td>0.675</td></tr><tr><td>649</td><td>0.675</td><td>699</td><td>0.675</td><td>749</td><td>0.675</td><td>799</td><td>0.675</td><td>849</td><td>0.675</td><td>899</td><td>0.675</td></tr><tr><td>650</td><td>0.675</td><td>700</td><td>0.675</td><td>750</td><td>0.675</td><td>800</td><td>0.675</td><td>850</td><td>0.675</td><td>900</td><td>0.675</td></tr></table> |              |                |              |                               |              |                |              |                |              |                                                                                     |              | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | 601 | 0.675 | 651 | 0.675 | 701 | 0.675 | 751 | 0.675 | 801 | 0.675 | 851 | 0.675 | 602 | 0.675 | 652 | 0.675 | 702 | 0.675 | 752 | 0.675 | 802 | 0.675 | 852 | 0.675 | 603 | 0.675 | 653 | 0.675 | 703 | 0.675 | 753 | 0.675 | 803 | 0.675 | 853 | 0.675 | 604 | 0.675 | 654 | 0.675 | 704 | 0.675 | 754 | 0.675 | 804 | 0.675 | 854 | 0.675 | 605 | 0.675 | 655 | 0.675 | 705 | 0.675 | 755 | 0.675 | 805 | 0.675 | 855 | 0.675 | 606 | 0.675 | 656 | 0.675 | 706 | 0.675 | 756 | 0.675 | 806 | 0.675 | 856 | 0.675 | 607 | 0.675 | 657 | 0.675 | 707 | 0.675 | 757 | 0.675 | 807 | 0.675 | 857 | 0.675 | 608 | 0.675 | 658 | 0.675 | 708 | 0.675 | 758 | 0.675 | 808 | 0.675 | 858 | 0.675 | 609 | 0.675 | 659 | 0.675 | 709 | 0.675 | 759 | 0.675 | 809 | 0.675 | 859 | 0.675 | 610 | 0.675 | 660 | 0.675 | 710 | 0.675 | 760 | 0.675 | 810 | 0.675 | 860 | 0.675 | 611 | 0.675 | 661 | 0.675 | 711 | 0.675 | 761 | 0.675 | 811 | 0.675 | 861 | 0.675 | 612 | 0.675 | 662 | 0.675 | 712 | 0.675 | 762 | 0.675 | 812 | 0.675 | 862 | 0.675 | 613 | 0.675 | 663 | 0.675 | 713 | 0.675 | 763 | 0.675 | 813 | 0.675 | 863 | 0.675 | 614 | 0.675 | 664 | 0.675 | 714 | 0.675 | 764 | 0.675 | 814 | 0.675 | 864 | 0.675 | 615 | 0.675 | 665 | 0.675 | 715 | 0.675 | 765 | 0.675 | 815 | 0.675 | 865 | 0.675 | 616 | 0.675 | 666 | 0.675 | 716 | 0.675 | 766 | 0.675 | 816 | 0.675 | 866 | 0.675 | 617 | 0.675 | 667 | 0.675 | 717 | 0.675 | 767 | 0.675 | 817 | 0.675 | 867 | 0.675 | 618 | 0.675 | 668 | 0.675 | 718 | 0.675 | 768 | 0.675 | 818 | 0.675 | 868 | 0.675 | 619 | 0.675 | 669 | 0.675 | 719 | 0.675 | 769 | 0.675 | 819 | 0.675 | 869 | 0.675 | 620 | 0.675 | 670 | 0.675 | 720 | 0.675 | 770 | 0.675 | 820 | 0.675 | 870 | 0.675 | 621 | 0.675 | 671 | 0.675 | 721 | 0.675 | 771 | 0.675 | 821 | 0.675 | 871 | 0.675 | 622 | 0.675 | 672 | 0.675 | 722 | 0.675 | 772 | 0.675 | 822 | 0.675 | 872 | 0.675 | 623 | 0.675 | 673 | 0.675 | 723 | 0.675 | 773 | 0.675 | 823 | 0.675 | 873 | 0.675 | 624 | 0.675 | 674 | 0.675 | 724 | 0.675 | 774 | 0.675 | 824 | 0.675 | 874 | 0.675 | 625 | 0.675 | 675 | 0.675 | 725 | 0.675 | 775 | 0.675 | 825 | 0.675 | 875 | 0.675 | 626 | 0.675 | 676 | 0.675 | 726 | 0.675 | 776 | 0.675 | 826 | 0.675 | 876 | 0.675 | 627 | 0.675 | 677 | 0.675 | 727 | 0.675 | 777 | 0.675 | 827 | 0.675 | 877 | 0.675 | 628 | 0.675 | 678 | 0.675 | 728 | 0.675 | 778 | 0.675 | 828 | 0.675 | 878 | 0.675 | 629 | 0.675 | 679 | 0.675 | 729 | 0.675 | 779 | 0.675 | 829 | 0.675 | 879 | 0.675 | 630 | 0.675 | 680 | 0.675 | 730 | 0.675 | 780 | 0.675 | 830 | 0.675 | 880 | 0.675 | 631 | 0.675 | 681 | 0.675 | 731 | 0.675 | 781 | 0.675 | 831 | 0.675 | 881 | 0.675 | 632 | 0.675 | 682 | 0.675 | 732 | 0.675 | 782 | 0.675 | 832 | 0.675 | 882 | 0.675 | 633 | 0.675 | 683 | 0.675 | 733 | 0.675 | 783 | 0.675 | 833 | 0.675 | 883 | 0.675 | 634 | 0.675 | 684 | 0.675 | 734 | 0.675 | 784 | 0.675 | 834 | 0.675 | 884 | 0.675 | 635 | 0.675 | 685 | 0.675 | 735 | 0.675 | 785 | 0.675 | 835 | 0.675 | 885 | 0.675 | 636 | 0.675 | 686 | 0.675 | 736 | 0.675 | 786 | 0.675 | 836 | 0.675 | 886 | 0.675 | 637 | 0.675 | 687 | 0.675 | 737 | 0.675 | 787 | 0.675 | 837 | 0.675 | 887 | 0.675 | 638 | 0.675 | 688 | 0.675 | 738 | 0.675 | 788 | 0.675 | 838 | 0.675 | 888 | 0.675 | 639 | 0.675 | 689 | 0.675 | 739 | 0.675 | 789 | 0.675 | 839 | 0.675 | 889 | 0.675 | 640 | 0.675 | 690 | 0.675 | 740 | 0.675 | 790 | 0.675 | 840 | 0.675 | 890 | 0.675 | 641 | 0.675 | 691 | 0.675 | 741 | 0.675 | 791 | 0.675 | 841 | 0.675 | 891 | 0.675 | 642 | 0.675 | 692 | 0.675 | 742 | 0.675 | 792 | 0.675 | 842 | 0.675 | 892 | 0.675 | 643 | 0.675 | 693 | 0.675 | 743 | 0.675 | 793 | 0.675 | 843 | 0.675 | 893 | 0.675 | 644 | 0.675 | 694 | 0.675 | 744 | 0.675 | 794 | 0.675 | 844 | 0.675 | 894 | 0.675 | 645 | 0.675 | 695 | 0.675 | 745 | 0.675 | 795 | 0.675 | 845 | 0.675 | 895 | 0.675 | 646 | 0.675 | 696 | 0.675 | 746 | 0.675 | 796 | 0.675 | 846 | 0.675 | 896 | 0.675 | 647 | 0.675 | 697 | 0.675 | 747 | 0.675 | 797 | 0.675 | 847 | 0.675 | 897 | 0.675 | 648 | 0.675 | 698 | 0.675 | 748 | 0.675 | 798 | 0.675 | 848 | 0.675 | 898 | 0.675 | 649 | 0.675 | 699 | 0.675 | 749 | 0.675 | 799 | 0.675 | 849 | 0.675 | 899 | 0.675 | 650 | 0.675 | 700 | 0.675 | 750 | 0.675 | 800 | 0.675 | 850 | 0.675 | 900 | 0.675 |
| Time<br>(mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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          |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 601                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 651            | 0.675        | 701                           | 0.675        | 751            | 0.675        | 801            | 0.675        | 851                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 602                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 652            | 0.675        | 702                           | 0.675        | 752            | 0.675        | 802            | 0.675        | 852                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 603                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 653            | 0.675        | 703                           | 0.675        | 753            | 0.675        | 803            | 0.675        | 853                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 604                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 654            | 0.675        | 704                           | 0.675        | 754            | 0.675        | 804            | 0.675        | 854                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.675        | 655            | 0.675        | 705                           | 0.675        | 755            | 0.675        | 805            | 0.675        | 855                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.675        | 656            | 0.675        | 706                           | 0.675        | 756            | 0.675        | 806            | 0.675        | 856                                                                                 | 0.675        |                |              |                |              |                |              |                |    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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.675        | 657            | 0.675        | 707                           | 0.675        | 757            | 0.675        | 807            | 0.675        | 857                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.675        | 658            | 0.675        | 708                           | 0.675        | 758            | 0.675        | 808            | 0.675        | 858                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.675        | 659            | 0.675        | 709                           | 0.675        | 759            | 0.675        | 809            | 0.675        | 859                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.675        | 660            | 0.675        | 710                           | 0.675        | 760            | 0.675        | 810            | 0.675        | 860                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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          |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.675        | 663            | 0.675        | 713                           | 0.675        | 763            | 0.675        | 813            | 0.675        | 863                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 614                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 664            | 0.675        | 714                           | 0.675        | 764            | 0.675        | 814            | 0.675        | 864                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 615                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 665            | 0.675        | 715                           | 0.675        | 765            | 0.675        | 815            | 0.675        | 865                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 616                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 666            | 0.675        | 716                           | 0.675        | 766            | 0.675        | 816            | 0.675        | 866                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.675        | 667            | 0.675        | 717                           | 0.675        | 767            | 0.675        | 817            | 0.675        | 867                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.675        | 668            | 0.675        | 718                           | 0.675        | 768            | 0.675        | 818            | 0.675        | 868                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.675        | 669            | 0.675        | 719                           | 0.675        | 769            | 0.675        | 819            | 0.675        | 869                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.675        | 670            | 0.675        | 720                           | 0.675        | 770            | 0.675        | 820            | 0.675        | 870                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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          |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 622                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 672            | 0.675        | 722                           | 0.675        | 772            | 0.675        | 822            | 0.675        | 872                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.675        | 673            | 0.675        | 723                           | 0.675        | 773            | 0.675        | 823            | 0.675        | 873                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.675        | 674            | 0.675        | 724                           | 0.675        | 774            | 0.675        | 824            | 0.675        | 874                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 625                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 675            | 0.675        | 725                           | 0.675        | 775            | 0.675        | 825            | 0.675        | 875                                                                                 | 0.675        |                |              |                |              |                |              |                |    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          |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 627                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 677            | 0.675        | 727                           | 0.675        | 777            | 0.675        | 827            | 0.675        | 877                                                                                 | 0.675        |                |              |                |              |                |              |                |    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| 628                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 678            | 0.675        | 728                           | 0.675        | 778            | 0.675        | 828            | 0.675        | 878                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 629                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 679            | 0.675        | 729                           | 0.675        | 779            | 0.675        | 829            | 0.675        | 879                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 630                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 680            | 0.675        | 730                           | 0.675        | 780            | 0.675        | 830            | 0.675        | 880                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 631                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 681            | 0.675        | 731                           | 0.675        | 781            | 0.675        | 831            | 0.675        | 881                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 632                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 682            | 0.675        | 732                           | 0.675        | 782            | 0.675        | 832            | 0.675        | 882                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 633                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 683            | 0.675        | 733                           | 0.675        | 783            | 0.675        | 833            | 0.675        | 883                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 634                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 684            | 0.675        | 734                           | 0.675        | 784            | 0.675        | 834            | 0.675        | 884                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 635                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 685            | 0.675        | 735                           | 0.675        | 785            | 0.675        | 835            | 0.675        | 885                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 636                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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          |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.675        | 687            | 0.675        | 737                           | 0.675        | 787            | 0.675        | 837            | 0.675        | 887                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.675        | 688            | 0.675        | 738                           | 0.675        | 788            | 0.675        | 838            | 0.675        | 888                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 639                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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          |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 641                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 691            | 0.675        | 741                           | 0.675        | 791            | 0.675        | 841            | 0.675        | 891                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 642                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 692            | 0.675        | 742                           | 0.675        | 792            | 0.675        | 842            | 0.675        | 892                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 643                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 693            | 0.675        | 743                           | 0.675        | 793            | 0.675        | 843            | 0.675        | 893                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 644                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 694            | 0.675        | 744                           | 0.675        | 794            | 0.675        | 844            | 0.675        | 894                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 645                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 695            | 0.675        | 745                           | 0.675        | 795            | 0.675        | 845            | 0.675        | 895                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 646                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 696            | 0.675        | 746                           | 0.675        | 796            | 0.675        | 846            | 0.675        | 896                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 647                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 697            | 0.675        | 747                           | 0.675        | 797            | 0.675        | 847            | 0.675        | 897                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 648                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 698            | 0.675        | 748                           | 0.675        | 798            | 0.675        | 848            | 0.675        | 898                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 649                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 699            | 0.675        | 749                           | 0.675        | 799            | 0.675        | 849            | 0.675        | 899                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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| 650                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.675        | 700            | 0.675        | 750                           | 0.675        | 800            | 0.675        | 850            | 0.675        | 900                                                                                 | 0.675        |                |              |                |              |                |              |                |              |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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          |                |              |                |              |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |     |       |  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|                                                                       |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
|-----------------------------------------------------------------------|--------------|----------------|--------------|-------------------------------|--------------|----------------|--------------|----------------|--------------|-------------------------------------------------------------------------------------|--------------|
| EAS Transport Planning                                                |              |                |              |                               |              |                |              |                |              | Page 7                                                                              |              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |              |                |              | BLOCK D<br>SW NETWORK         |              |                |              |                |              |  |              |
| Date 13/07/2022 22:36<br>File 20220712-Block D - Surf...              |              |                |              | Designed by EAS<br>Checked by |              |                |              |                |              |                                                                                     |              |
| Innovyze                                                              |              |                |              | Network 2020.1.3              |              |                |              |                |              |                                                                                     |              |
| Surcharged Outfall Details for Storm                                  |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
| Time<br>(mins)                                                        | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) |
| 901                                                                   | 0.675        | 951            | 0.675        | 1001                          | 0.675        | 1051           | 0.675        | 1101           | 0.675        | 1151                                                                                | 0.675        |
| 902                                                                   | 0.675        | 952            | 0.675        | 1002                          | 0.675        | 1052           | 0.675        | 1102           | 0.675        | 1152                                                                                | 0.675        |
| 903                                                                   | 0.675        | 953            | 0.675        | 1003                          | 0.675        | 1053           | 0.675        | 1103           | 0.675        | 1153                                                                                | 0.675        |
| 904                                                                   | 0.675        | 954            | 0.675        | 1004                          | 0.675        | 1054           | 0.675        | 1104           | 0.675        | 1154                                                                                | 0.675        |
| 905                                                                   | 0.675        | 955            | 0.675        | 1005                          | 0.675        | 1055           | 0.675        | 1105           | 0.675        | 1155                                                                                | 0.675        |
| 906                                                                   | 0.675        | 956            | 0.675        | 1006                          | 0.675        | 1056           | 0.675        | 1106           | 0.675        | 1156                                                                                | 0.675        |
| 907                                                                   | 0.675        | 957            | 0.675        | 1007                          | 0.675        | 1057           | 0.675        | 1107           | 0.675        | 1157                                                                                | 0.675        |
| 908                                                                   | 0.675        | 958            | 0.675        | 1008                          | 0.675        | 1058           | 0.675        | 1108           | 0.675        | 1158                                                                                | 0.675        |
| 909                                                                   | 0.675        | 959            | 0.675        | 1009                          | 0.675        | 1059           | 0.675        | 1109           | 0.675        | 1159                                                                                | 0.675        |
| 910                                                                   | 0.675        | 960            | 0.675        | 1010                          | 0.675        | 1060           | 0.675        | 1110           | 0.675        | 1160                                                                                | 0.675        |
| 911                                                                   | 0.675        | 961            | 0.675        | 1011                          | 0.675        | 1061           | 0.675        | 1111           | 0.675        | 1161                                                                                | 0.675        |
| 912                                                                   | 0.675        | 962            | 0.675        | 1012                          | 0.675        | 1062           | 0.675        | 1112           | 0.675        | 1162                                                                                | 0.675        |
| 913                                                                   | 0.675        | 963            | 0.675        | 1013                          | 0.675        | 1063           | 0.675        | 1113           | 0.675        | 1163                                                                                | 0.675        |
| 914                                                                   | 0.675        | 964            | 0.675        | 1014                          | 0.675        | 1064           | 0.675        | 1114           | 0.675        | 1164                                                                                | 0.675        |
| 915                                                                   | 0.675        | 965            | 0.675        | 1015                          | 0.675        | 1065           | 0.675        | 1115           | 0.675        | 1165                                                                                | 0.675        |
| 916                                                                   | 0.675        | 966            | 0.675        | 1016                          | 0.675        | 1066           | 0.675        | 1116           | 0.675        | 1166                                                                                | 0.675        |
| 917                                                                   | 0.675        | 967            | 0.675        | 1017                          | 0.675        | 1067           | 0.675        | 1117           | 0.675        | 1167                                                                                | 0.675        |
| 918                                                                   | 0.675        | 968            | 0.675        | 1018                          | 0.675        | 1068           | 0.675        | 1118           | 0.675        | 1168                                                                                | 0.675        |
| 919                                                                   | 0.675        | 969            | 0.675        | 1019                          | 0.675        | 1069           | 0.675        | 1119           | 0.675        | 1169                                                                                | 0.675        |
| 920                                                                   | 0.675        | 970            | 0.675        | 1020                          | 0.675        | 1070           | 0.675        | 1120           | 0.675        | 1170                                                                                | 0.675        |
| 921                                                                   | 0.675        | 971            | 0.675        | 1021                          | 0.675        | 1071           | 0.675        | 1121           | 0.675        | 1171                                                                                | 0.675        |
| 922                                                                   | 0.675        | 972            | 0.675        | 1022                          | 0.675        | 1072           | 0.675        | 1122           | 0.675        | 1172                                                                                | 0.675        |
| 923                                                                   | 0.675        | 973            | 0.675        | 1023                          | 0.675        | 1073           | 0.675        | 1123           | 0.675        | 1173                                                                                | 0.675        |
| 924                                                                   | 0.675        | 974            | 0.675        | 1024                          | 0.675        | 1074           | 0.675        | 1124           | 0.675        | 1174                                                                                | 0.675        |
| 925                                                                   | 0.675        | 975            | 0.675        | 1025                          | 0.675        | 1075           | 0.675        | 1125           | 0.675        | 1175                                                                                | 0.675        |
| 926                                                                   | 0.675        | 976            | 0.675        | 1026                          | 0.675        | 1076           | 0.675        | 1126           | 0.675        | 1176                                                                                | 0.675        |
| 927                                                                   | 0.675        | 977            | 0.675        | 1027                          | 0.675        | 1077           | 0.675        | 1127           | 0.675        | 1177                                                                                | 0.675        |
| 928                                                                   | 0.675        | 978            | 0.675        | 1028                          | 0.675        | 1078           | 0.675        | 1128           | 0.675        | 1178                                                                                | 0.675        |
| 929                                                                   | 0.675        | 979            | 0.675        | 1029                          | 0.675        | 1079           | 0.675        | 1129           | 0.675        | 1179                                                                                | 0.675        |
| 930                                                                   | 0.675        | 980            | 0.675        | 1030                          | 0.675        | 1080           | 0.675        | 1130           | 0.675        | 1180                                                                                | 0.675        |
| 931                                                                   | 0.675        | 981            | 0.675        | 1031                          | 0.675        | 1081           | 0.675        | 1131           | 0.675        | 1181                                                                                | 0.675        |
| 932                                                                   | 0.675        | 982            | 0.675        | 1032                          | 0.675        | 1082           | 0.675        | 1132           | 0.675        | 1182                                                                                | 0.675        |
| 933                                                                   | 0.675        | 983            | 0.675        | 1033                          | 0.675        | 1083           | 0.675        | 1133           | 0.675        | 1183                                                                                | 0.675        |
| 934                                                                   | 0.675        | 984            | 0.675        | 1034                          | 0.675        | 1084           | 0.675        | 1134           | 0.675        | 1184                                                                                | 0.675        |
| 935                                                                   | 0.675        | 985            | 0.675        | 1035                          | 0.675        | 1085           | 0.675        | 1135           | 0.675        | 1185                                                                                | 0.675        |
| 936                                                                   | 0.675        | 986            | 0.675        | 1036                          | 0.675        | 1086           | 0.675        | 1136           | 0.675        | 1186                                                                                | 0.675        |
| 937                                                                   | 0.675        | 987            | 0.675        | 1037                          | 0.675        | 1087           | 0.675        | 1137           | 0.675        | 1187                                                                                | 0.675        |
| 938                                                                   | 0.675        | 988            | 0.675        | 1038                          | 0.675        | 1088           | 0.675        | 1138           | 0.675        | 1188                                                                                | 0.675        |
| 939                                                                   | 0.675        | 989            | 0.675        | 1039                          | 0.675        | 1089           | 0.675        | 1139           | 0.675        | 1189                                                                                | 0.675        |
| 940                                                                   | 0.675        | 990            | 0.675        | 1040                          | 0.675        | 1090           | 0.675        | 1140           | 0.675        | 1190                                                                                | 0.675        |
| 941                                                                   | 0.675        | 991            | 0.675        | 1041                          | 0.675        | 1091           | 0.675        | 1141           | 0.675        | 1191                                                                                | 0.675        |
| 942                                                                   | 0.675        | 992            | 0.675        | 1042                          | 0.675        | 1092           | 0.675        | 1142           | 0.675        | 1192                                                                                | 0.675        |
| 943                                                                   | 0.675        | 993            | 0.675        | 1043                          | 0.675        | 1093           | 0.675        | 1143           | 0.675        | 1193                                                                                | 0.675        |
| 944                                                                   | 0.675        | 994            | 0.675        | 1044                          | 0.675        | 1094           | 0.675        | 1144           | 0.675        | 1194                                                                                | 0.675        |
| 945                                                                   | 0.675        | 995            | 0.675        | 1045                          | 0.675        | 1095           | 0.675        | 1145           | 0.675        | 1195                                                                                | 0.675        |
| 946                                                                   | 0.675        | 996            | 0.675        | 1046                          | 0.675        | 1096           | 0.675        | 1146           | 0.675        | 1196                                                                                | 0.675        |
| 947                                                                   | 0.675        | 997            | 0.675        | 1047                          | 0.675        | 1097           | 0.675        | 1147           | 0.675        | 1197                                                                                | 0.675        |
| 948                                                                   | 0.675        | 998            | 0.675        | 1048                          | 0.675        | 1098           | 0.675        | 1148           | 0.675        | 1198                                                                                | 0.675        |
| 949                                                                   | 0.675        | 999            | 0.675        | 1049                          | 0.675        | 1099           | 0.675        | 1149           | 0.675        | 1199                                                                                | 0.675        |
| 950                                                                   | 0.675        | 1000           | 0.675        | 1050                          | 0.675        | 1100           | 0.675        | 1150           | 0.675        | 1200                                                                                | 0.675        |
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| EAS Transport Planning                                                |              |                |              |                               |              |                |              |                |              | Page 8                                                                              |              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |              |                |              | BLOCK D<br>SW NETWORK         |              |                |              |                |              |  |              |
| Date 13/07/2022 22:36<br>File 20220712-Block D - Surf...              |              |                |              | Designed by EAS<br>Checked by |              |                |              |                |              |                                                                                     |              |
| Innovyze                                                              |              |                |              | Network 2020.1.3              |              |                |              |                |              |                                                                                     |              |
| <u>Surcharged Outfall Details for Storm</u>                           |              |                |              |                               |              |                |              |                |              |                                                                                     |              |
| Time<br>(mins)                                                        | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) |
| 1201                                                                  | 0.675        | 1241           | 0.675        | 1281                          | 0.675        | 1321           | 0.675        | 1361           | 0.675        | 1401                                                                                | 0.675        |
| 1202                                                                  | 0.675        | 1242           | 0.675        | 1282                          | 0.675        | 1322           | 0.675        | 1362           | 0.675        | 1402                                                                                | 0.675        |
| 1203                                                                  | 0.675        | 1243           | 0.675        | 1283                          | 0.675        | 1323           | 0.675        | 1363           | 0.675        | 1403                                                                                | 0.675        |
| 1204                                                                  | 0.675        | 1244           | 0.675        | 1284                          | 0.675        | 1324           | 0.675        | 1364           | 0.675        | 1404                                                                                | 0.675        |
| 1205                                                                  | 0.675        | 1245           | 0.675        | 1285                          | 0.675        | 1325           | 0.675        | 1365           | 0.675        | 1405                                                                                | 0.675        |
| 1206                                                                  | 0.675        | 1246           | 0.675        | 1286                          | 0.675        | 1326           | 0.675        | 1366           | 0.675        | 1406                                                                                | 0.675        |
| 1207                                                                  | 0.675        | 1247           | 0.675        | 1287                          | 0.675        | 1327           | 0.675        | 1367           | 0.675        | 1407                                                                                | 0.675        |
| 1208                                                                  | 0.675        | 1248           | 0.675        | 1288                          | 0.675        | 1328           | 0.675        | 1368           | 0.675        | 1408                                                                                | 0.675        |
| 1209                                                                  | 0.675        | 1249           | 0.675        | 1289                          | 0.675        | 1329           | 0.675        | 1369           | 0.675        | 1409                                                                                | 0.675        |
| 1210                                                                  | 0.675        | 1250           | 0.675        | 1290                          | 0.675        | 1330           | 0.675        | 1370           | 0.675        | 1410                                                                                | 0.675        |
| 1211                                                                  | 0.675        | 1251           | 0.675        | 1291                          | 0.675        | 1331           | 0.675        | 1371           | 0.675        | 1411                                                                                | 0.675        |
| 1212                                                                  | 0.675        | 1252           | 0.675        | 1292                          | 0.675        | 1332           | 0.675        | 1372           | 0.675        | 1412                                                                                | 0.675        |
| 1213                                                                  | 0.675        | 1253           | 0.675        | 1293                          | 0.675        | 1333           | 0.675        | 1373           | 0.675        | 1413                                                                                | 0.675        |
| 1214                                                                  | 0.675        | 1254           | 0.675        | 1294                          | 0.675        | 1334           | 0.675        | 1374           | 0.675        | 1414                                                                                | 0.675        |
| 1215                                                                  | 0.675        | 1255           | 0.675        | 1295                          | 0.675        | 1335           | 0.675        | 1375           | 0.675        | 1415                                                                                | 0.675        |
| 1216                                                                  | 0.675        | 1256           | 0.675        | 1296                          | 0.675        | 1336           | 0.675        | 1376           | 0.675        | 1416                                                                                | 0.675        |
| 1217                                                                  | 0.675        | 1257           | 0.675        | 1297                          | 0.675        | 1337           | 0.675        | 1377           | 0.675        | 1417                                                                                | 0.675        |
| 1218                                                                  | 0.675        | 1258           | 0.675        | 1298                          | 0.675        | 1338           | 0.675        | 1378           | 0.675        | 1418                                                                                | 0.675        |
| 1219                                                                  | 0.675        | 1259           | 0.675        | 1299                          | 0.675        | 1339           | 0.675        | 1379           | 0.675        | 1419                                                                                | 0.675        |
| 1220                                                                  | 0.675        | 1260           | 0.675        | 1300                          | 0.675        | 1340           | 0.675        | 1380           | 0.675        | 1420                                                                                | 0.675        |
| 1221                                                                  | 0.675        | 1261           | 0.675        | 1301                          | 0.675        | 1341           | 0.675        | 1381           | 0.675        | 1421                                                                                | 0.675        |
| 1222                                                                  | 0.675        | 1262           | 0.675        | 1302                          | 0.675        | 1342           | 0.675        | 1382           | 0.675        | 1422                                                                                | 0.675        |
| 1223                                                                  | 0.675        | 1263           | 0.675        | 1303                          | 0.675        | 1343           | 0.675        | 1383           | 0.675        | 1423                                                                                | 0.675        |
| 1224                                                                  | 0.675        | 1264           | 0.675        | 1304                          | 0.675        | 1344           | 0.675        | 1384           | 0.675        | 1424                                                                                | 0.675        |
| 1225                                                                  | 0.675        | 1265           | 0.675        | 1305                          | 0.675        | 1345           | 0.675        | 1385           | 0.675        | 1425                                                                                | 0.675        |
| 1226                                                                  | 0.675        | 1266           | 0.675        | 1306                          | 0.675        | 1346           | 0.675        | 1386           | 0.675        | 1426                                                                                | 0.675        |
| 1227                                                                  | 0.675        | 1267           | 0.675        | 1307                          | 0.675        | 1347           | 0.675        | 1387           | 0.675        | 1427                                                                                | 0.675        |
| 1228                                                                  | 0.675        | 1268           | 0.675        | 1308                          | 0.675        | 1348           | 0.675        | 1388           | 0.675        | 1428                                                                                | 0.675        |
| 1229                                                                  | 0.675        | 1269           | 0.675        | 1309                          | 0.675        | 1349           | 0.675        | 1389           | 0.675        | 1429                                                                                | 0.675        |
| 1230                                                                  | 0.675        | 1270           | 0.675        | 1310                          | 0.675        | 1350           | 0.675        | 1390           | 0.675        | 1430                                                                                | 0.675        |
| 1231                                                                  | 0.675        | 1271           | 0.675        | 1311                          | 0.675        | 1351           | 0.675        | 1391           | 0.675        | 1431                                                                                | 0.675        |
| 1232                                                                  | 0.675        | 1272           | 0.675        | 1312                          | 0.675        | 1352           | 0.675        | 1392           | 0.675        | 1432                                                                                | 0.675        |
| 1233                                                                  | 0.675        | 1273           | 0.675        | 1313                          | 0.675        | 1353           | 0.675        | 1393           | 0.675        | 1433                                                                                | 0.675        |
| 1234                                                                  | 0.675        | 1274           | 0.675        | 1314                          | 0.675        | 1354           | 0.675        | 1394           | 0.675        | 1434                                                                                | 0.675        |
| 1235                                                                  | 0.675        | 1275           | 0.675        | 1315                          | 0.675        | 1355           | 0.675        | 1395           | 0.675        | 1435                                                                                | 0.675        |
| 1236                                                                  | 0.675        | 1276           | 0.675        | 1316                          | 0.675        | 1356           | 0.675        | 1396           | 0.675        | 1436                                                                                | 0.675        |
| 1237                                                                  | 0.675        | 1277           | 0.675        | 1317                          | 0.675        | 1357           | 0.675        | 1397           | 0.675        | 1437                                                                                | 0.675        |
| 1238                                                                  | 0.675        | 1278           | 0.675        | 1318                          | 0.675        | 1358           | 0.675        | 1398           | 0.675        | 1438                                                                                | 0.675        |
| 1239                                                                  | 0.675        | 1279           | 0.675        | 1319                          | 0.675        | 1359           | 0.675        | 1399           | 0.675        | 1439                                                                                | 0.675        |
| 1240                                                                  | 0.675        | 1280           | 0.675        | 1320                          | 0.675        | 1360           | 0.675        | 1400           | 0.675        | 1440                                                                                | 0.675        |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                               |                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                               | Page 9                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | BLOCK D<br>SW NETWORK         |  |
| Date 13/07/2022 22:36<br>File 20220712-Block D - Surf...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Designed by EAS<br>Checked by |                                                                                     |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Network 2020.1.3              |                                                                                     |
| <div>Simulation Criteria for Storm</div> <div><div>Volumetric Runoff Coeff 0.750</div><div>Additional Flow - % of Total Flow 0.000</div><div>Areal Reduction Factor 1.000</div><div>MADD Factor * 10m³/ha Storage 2.000</div><div>Hot Start (mins) 0</div><div>Inlet Coeffiecient 0.800</div><div>Hot Start Level (mm) 0</div><div>Flow per Person per Day (l/per/day) 0.000</div><div>Manhole Headloss Coeff (Global) 0.500</div><div>Run Time (mins) 60</div><div>Foul Sewage per hectare (l/s) 0.000</div><div>Output Interval (mins) 1</div><div>Number of Input Hydrographs 0</div><div>Number of Storage Structures 1</div><div>Number of Online Controls 1</div><div>Number of Time/Area Diagrams 0</div><div>Number of Offline Controls 0</div><div>Number of Real Time Controls 0</div></div> <div>Synthetic Rainfall Details</div> <div><div>Rainfall Model</div><div>FSR</div><div>Profile Type Summer</div><div>Return Period (years) 5</div><div>Cv (Summer) 0.750</div><div>Region England and Wales</div><div>Cv (Winter) 0.840</div><div>M5-60 (mm) 20.000</div><div>Storm Duration (mins) 30</div><div>Ratio R 0.407</div></div> |                               |                                                                                     |
| ©1982-2020 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |                                                                                     |

| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |                       | Page 10                                                                             |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------|-------------------------------------------------------------------------------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-------|--------|-------|---------|-------|---------|-------|---------|-------|--------|-------|---------|-------|---------|-------|---------|-------|--------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|--|--|-------|---------|-------|---------|-------|---------|--|--|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | BLOCK D<br>SW NETWORK |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Date 13/07/2022 22:36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | Designed by EAS       |                                                                                     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| File 20220712-Block D - Surf...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | Checked by            |                                                                                     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            | Network 2020.1.3      |                                                                                     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| <p><u>Online Controls for Storm</u></p> <p><u>Pump Manhole: PUMP AND GEO, DS/PN: 1.006, Volume (m³): 5.5</u></p> <p>Invert Level (m) 1.200</p> <table><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr><tr><td>0.100</td><td>3.0000</td><td>1.200</td><td>12.5000</td><td>3.000</td><td>12.5000</td><td>7.000</td><td>12.5000</td></tr><tr><td>0.200</td><td>5.0000</td><td>1.400</td><td>12.5000</td><td>3.500</td><td>12.5000</td><td>7.500</td><td>12.5000</td></tr><tr><td>0.300</td><td>8.0000</td><td>1.600</td><td>12.5000</td><td>4.000</td><td>12.5000</td><td>8.000</td><td>12.5000</td></tr><tr><td>0.400</td><td>12.5000</td><td>1.800</td><td>12.5000</td><td>4.500</td><td>12.5000</td><td>8.500</td><td>12.5000</td></tr><tr><td>0.500</td><td>12.5000</td><td>2.000</td><td>12.5000</td><td>5.000</td><td>12.5000</td><td>9.000</td><td>12.5000</td></tr><tr><td>0.600</td><td>12.5000</td><td>2.200</td><td>12.5000</td><td>5.500</td><td>12.5000</td><td>9.500</td><td>12.5000</td></tr><tr><td>0.800</td><td>12.5000</td><td>2.400</td><td>12.5000</td><td>6.000</td><td>12.5000</td><td></td><td></td></tr><tr><td>1.000</td><td>12.5000</td><td>2.600</td><td>12.5000</td><td>6.500</td><td>12.5000</td><td></td><td></td></tr></table> |            |                       |                                                                                     | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | 0.100 | 3.0000 | 1.200 | 12.5000 | 3.000 | 12.5000 | 7.000 | 12.5000 | 0.200 | 5.0000 | 1.400 | 12.5000 | 3.500 | 12.5000 | 7.500 | 12.5000 | 0.300 | 8.0000 | 1.600 | 12.5000 | 4.000 | 12.5000 | 8.000 | 12.5000 | 0.400 | 12.5000 | 1.800 | 12.5000 | 4.500 | 12.5000 | 8.500 | 12.5000 | 0.500 | 12.5000 | 2.000 | 12.5000 | 5.000 | 12.5000 | 9.000 | 12.5000 | 0.600 | 12.5000 | 2.200 | 12.5000 | 5.500 | 12.5000 | 9.500 | 12.5000 | 0.800 | 12.5000 | 2.400 | 12.5000 | 6.000 | 12.5000 |  |  | 1.000 | 12.5000 | 2.600 | 12.5000 | 6.500 | 12.5000 |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Flow (l/s) | Depth (m)             | Flow (l/s)                                                                          | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) |           |            |           |            |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3.0000     | 1.200                 | 12.5000                                                                             | 3.000     | 12.5000    | 7.000     | 12.5000    |           |            |           |            |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5.0000     | 1.400                 | 12.5000                                                                             | 3.500     | 12.5000    | 7.500     | 12.5000    |           |            |           |            |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 8.0000     | 1.600                 | 12.5000                                                                             | 4.000     | 12.5000    | 8.000     | 12.5000    |           |            |           |            |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12.5000    | 1.800                 | 12.5000                                                                             | 4.500     | 12.5000    | 8.500     | 12.5000    |           |            |           |            |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12.5000    | 2.000                 | 12.5000                                                                             | 5.000     | 12.5000    | 9.000     | 12.5000    |           |            |           |            |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12.5000    | 2.200                 | 12.5000                                                                             | 5.500     | 12.5000    | 9.500     | 12.5000    |           |            |           |            |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12.5000    | 2.400                 | 12.5000                                                                             | 6.000     | 12.5000    |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12.5000    | 2.600                 | 12.5000                                                                             | 6.500     | 12.5000    |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
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| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                               | Page 11                                                                             |           |           |                |           |           |                |       |      |     |       |      |     |       |      |     |       |     |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------|-----------|-----------|----------------|-----------|-----------|----------------|-------|------|-----|-------|------|-----|-------|------|-----|-------|-----|-----|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | BLOCK D<br>SW NETWORK         |  |           |           |                |           |           |                |       |      |     |       |      |     |       |      |     |       |     |     |
| Date 13/07/2022 22:36<br>File 20220712-Block D - Surf...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Designed by EAS<br>Checked by |                                                                                     |           |           |                |           |           |                |       |      |     |       |      |     |       |      |     |       |     |     |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Network 2020.1.3              |                                                                                     |           |           |                |           |           |                |       |      |     |       |      |     |       |      |     |       |     |     |
| <div>Storage Structures for Storm</div> <div>Cellular Storage Manhole: PUMP AND GEO, DS/PN: 1.006</div> <div>Invert Level (m) 1.200 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95<br/>Infiltration Coefficient Side (m/hr) 0.00000</div> <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>71.0</td><td>0.0</td><td>1.320</td><td>71.0</td><td>0.0</td></tr><tr><td>0.660</td><td>71.0</td><td>0.0</td><td>1.321</td><td>0.0</td><td>0.0</td></tr></tbody></table> |                               |                                                                                     | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | 0.000 | 71.0 | 0.0 | 1.320 | 71.0 | 0.0 | 0.660 | 71.0 | 0.0 | 1.321 | 0.0 | 0.0 |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Area (m²)                     | Inf. Area (m²)                                                                      | Depth (m) | Area (m²) | Inf. Area (m²) |           |           |                |       |      |     |       |      |     |       |      |     |       |     |     |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 71.0                          | 0.0                                                                                 | 1.320     | 71.0      | 0.0            |           |           |                |       |      |     |       |      |     |       |      |     |       |     |     |
| 0.660                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 71.0                          | 0.0                                                                                 | 1.321     | 0.0       | 0.0            |           |           |                |       |      |     |       |      |     |       |      |     |       |     |     |
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EAS Transport Planning

Unit 23, The Maltings  
Stanstead Abbotts  
Hertfordshire, SG12 8HG

Date 13/07/2022 22:36  
File 20220712-Block D - Surf...

Innovyze

BLOCK D  
SW NETWORK

Designed by EAS  
Checked by

Network 2020.1.3

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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor \* 10m³/ha Storage 2.000

Hot Start Level (mm) 0

Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500

Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0

Number of Storage Structures 1

Number of Online Controls 1

Number of Time/Area Diagrams 0

Number of Offline Controls 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH

FEH Rainfall Version 2013

Site Location GB 623065 309383 TG 23065 09383

Data Type Point

Cv (Summer) 0.750

Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0

DVD Status OFF

Analysis Timestep Fine

Inertia Status OFF

DTS Status ON

Profile(s) Summer and Winter

Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440

Return Period(s) (years) 100

Climate Change (%) 45

PN

US/MH Name

Event

US/CL (m)

Water Level (m)

Surcharged Depth (m)

Flooded Volume (m³)

1.000

D01

120 minute 100 year Winter I+45%

4.950

4.307

0.432

0.000

1.001

D02

120 minute 100 year Winter I+45%

4.950

4.304

0.579

0.000

1.002

D03

120 minute 100 year Winter I+45%

4.950

4.301

0.616

0.000

1.003

D04

120 minute 100 year Winter I+45%

4.950

4.297

0.708

0.000

1.004

D05

120 minute 100 year Winter I+45%

4.950

4.294

0.742

0.000

1.005

D06

120 minute 100 year Winter I+45%

4.950

4.291

0.781

0.000

2.000

D07

120 minute 100 year Winter I+45%

4.500

4.288

1.063

0.000

2.001

D08

120 minute 100 year Winter I+45%

4.700

4.285

1.140

0.000

2.002

D09

120 minute 100 year Winter I+45%

4.800

4.283

1.277

0.000

1.006

PUMP AND GEO

120 minute 100 year Winter I+45%

4.800

4.282

2.782

0.000

1.007

D10

15 minute 100 year Summer I+45%

4.500

2.258

-0.242

0.000

1.008

D11

15 minute 100 year Winter I+45%

4.500

1.870

-0.080

0.000

1.009

SW-A-04

15 minute 100 year Summer I+45%

4.500

1.691

0.001

0.000

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EAS Transport Planning

Unit 23, The Maltings  
Stanstead Abbotts  
Hertfordshire, SG12 8HG

Date 14/07/2022 00:08  
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BLOCK E  
GEOCELLULAR STORAGE  
OUTLINE

Designed by EAS  
Checked by

Source Control 2020.1.3

Page 1

Micro Drainage

Summary of Results for 100 year Return Period (+45%)

Half Drain Time : 102 minutes.

| Storm Event      | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Control Σ (l/s) | Max Outflow (l/s) | Max Volume (m³) | Status |
|------------------|---------------|---------------|------------------------|---------------------|-------------------|-----------------|--------|
| 15 min Summer    | 2.059         | 1.059         | 0.0                    | 26.5                | 26.5              | 167.4           | O K    |
| 30 min Summer    | 2.342         | 1.342         | 0.0                    | 30.0                | 30.0              | 212.1           | O K    |
| 60 min Summer    | 2.567         | 1.567         | 0.0                    | 30.0                | 30.0              | 247.7           | O K    |
| 120 min Summer   | 2.701         | 1.701         | 0.0                    | 30.0                | 30.0              | 268.8           | O K    |
| 180 min Summer   | 2.750         | 1.750         | 0.0                    | 30.0                | 30.0              | 276.6           | O K    |
| 240 min Summer   | 2.758         | 1.758         | 0.0                    | 30.0                | 30.0              | 277.9           | O K    |
| 360 min Summer   | 2.703         | 1.703         | 0.0                    | 30.0                | 30.0              | 269.3           | O K    |
| 480 min Summer   | 2.599         | 1.599         | 0.0                    | 30.0                | 30.0              | 252.8           | O K    |
| 600 min Summer   | 2.481         | 1.481         | 0.0                    | 30.0                | 30.0              | 234.1           | O K    |
| 720 min Summer   | 2.365         | 1.365         | 0.0                    | 30.0                | 30.0              | 215.8           | O K    |
| 960 min Summer   | 2.181         | 1.181         | 0.0                    | 29.5                | 29.5              | 186.7           | O K    |
| 1440 min Summer  | 1.959         | 0.959         | 0.0                    | 24.0                | 24.0              | 151.7           | O K    |
| 2160 min Summer  | 1.749         | 0.749         | 0.0                    | 18.7                | 18.7              | 118.4           | O K    |
| 2880 min Summer  | 1.617         | 0.617         | 0.0                    | 15.4                | 15.4              | 97.6            | O K    |
| 4320 min Summer  | 1.461         | 0.461         | 0.0                    | 11.5                | 11.5              | 72.9            | O K    |
| 5760 min Summer  | 1.373         | 0.373         | 0.0                    | 9.3                 | 9.3               | 59.0            | O K    |
| 7200 min Summer  | 1.317         | 0.317         | 0.0                    | 7.9                 | 7.9               | 50.1            | O K    |
| 8640 min Summer  | 1.278         | 0.278         | 0.0                    | 7.0                 | 7.0               | 44.0            | O K    |
| 10080 min Summer | 1.249         | 0.249         | 0.0                    | 6.2                 | 6.2               | 39.3            | O K    |
| 15 min Winter    | 2.185         | 1.185         | 0.0                    | 29.6                | 29.6              | 187.4           | O K    |

| Storm Event      | Rain (mm/hr) | Flooded Volume (m³) | Discharge Volume (m³) | Time-Peak (mins) |
|------------------|--------------|---------------------|-----------------------|------------------|
| 15 min Summer    | 161.698      | 0.0                 | 194.6                 | 33               |
| 30 min Summer    | 106.079      | 0.0                 | 255.4                 | 44               |
| 60 min Summer    | 66.043       | 0.0                 | 318.0                 | 66               |
| 120 min Summer   | 40.674       | 0.0                 | 391.7                 | 104              |
| 180 min Summer   | 30.745       | 0.0                 | 444.1                 | 138              |
| 240 min Summer   | 25.190       | 0.0                 | 485.2                 | 172              |
| 360 min Summer   | 18.924       | 0.0                 | 546.7                 | 240              |
| 480 min Summer   | 15.309       | 0.0                 | 589.7                 | 304              |
| 600 min Summer   | 12.911       | 0.0                 | 621.7                 | 368              |
| 720 min Summer   | 11.192       | 0.0                 | 646.7                 | 428              |
| 960 min Summer   | 8.868        | 0.0                 | 683.1                 | 546              |
| 1440 min Summer  | 6.306        | 0.0                 | 728.7                 | 792              |
| 2160 min Summer  | 4.438        | 0.0                 | 769.1                 | 1156             |
| 2880 min Summer  | 3.453        | 0.0                 | 798.0                 | 1516             |
| 4320 min Summer  | 2.428        | 0.0                 | 841.6                 | 2248             |
| 5760 min Summer  | 1.899        | 0.0                 | 877.7                 | 2952             |
| 7200 min Summer  | 1.581        | 0.0                 | 913.5                 | 3680             |
| 8640 min Summer  | 1.367        | 0.0                 | 947.9                 | 4416             |
| 10080 min Summer | 1.213        | 0.0                 | 981.5                 | 5144             |
| 15 min Winter    | 161.698      | 0.0                 | 217.9                 | 34               |

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|                                                                       |                              |                                    |                                           |                                  |                                    |                                |                                                                                     |
|-----------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|----------------------------------|------------------------------------|--------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                |                              |                                    |                                           |                                  |                                    |                                | Page 2                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |                              |                                    | BLOCK E<br>GEOCELLULAR STORAGE<br>OUTLINE |                                  |                                    |                                |  |
| Date 14/07/2022 00:08<br>File 20220713-Block E - Geoc...              |                              |                                    | Designed by EAS<br>Checked by             |                                  |                                    |                                |                                                                                     |
| Innovyze                                                              |                              |                                    | Source Control 2020.1.3                   |                                  |                                    |                                |                                                                                     |
| <u>Summary of Results for 100 year Return Period (+45%)</u>           |                              |                                    |                                           |                                  |                                    |                                |                                                                                     |
| <b>Storm<br/>Event</b>                                                | <b>Max<br/>Level<br/>(m)</b> | <b>Max<br/>Depth<br/>(m)</b>       | <b>Max<br/>Infiltration<br/>(l/s)</b>     | <b>Max<br/>Control<br/>(l/s)</b> | <b>Max<br/>E Outflow<br/>(l/s)</b> | <b>Max<br/>Volume<br/>(m³)</b> | <b>Status</b>                                                                       |
| 30 min Winter                                                         | 2.516                        | 1.516                              | 0.0                                       | 30.0                             | 30.0                               | 239.6                          | O K                                                                                 |
| 60 min Winter                                                         | 2.782                        | 1.782                              | 0.0                                       | 30.0                             | 30.0                               | 281.7                          | O K                                                                                 |
| 120 min Winter                                                        | 2.934                        | 1.934                              | 0.0                                       | 30.0                             | 30.0                               | 305.7                          | O K                                                                                 |
| 180 min Winter                                                        | 2.966                        | 1.966                              | 0.0                                       | 30.0                             | 30.0                               | 310.8                          | O K                                                                                 |
| 240 min Winter                                                        | 2.948                        | 1.948                              | 0.0                                       | 30.0                             | 30.0                               | 307.9                          | O K                                                                                 |
| 360 min Winter                                                        | 2.826                        | 1.826                              | 0.0                                       | 30.0                             | 30.0                               | 288.6                          | O K                                                                                 |
| 480 min Winter                                                        | 2.649                        | 1.649                              | 0.0                                       | 30.0                             | 30.0                               | 260.6                          | O K                                                                                 |
| 600 min Winter                                                        | 2.465                        | 1.465                              | 0.0                                       | 30.0                             | 30.0                               | 231.5                          | O K                                                                                 |
| 720 min Winter                                                        | 2.300                        | 1.300                              | 0.0                                       | 30.0                             | 30.0                               | 205.5                          | O K                                                                                 |
| 960 min Winter                                                        | 2.094                        | 1.094                              | 0.0                                       | 27.4                             | 27.4                               | 173.0                          | O K                                                                                 |
| 1440 min Winter                                                       | 1.844                        | 0.844                              | 0.0                                       | 21.1                             | 21.1                               | 133.5                          | O K                                                                                 |
| 2160 min Winter                                                       | 1.626                        | 0.626                              | 0.0                                       | 15.7                             | 15.7                               | 99.0                           | O K                                                                                 |
| 2880 min Winter                                                       | 1.500                        | 0.500                              | 0.0                                       | 12.5                             | 12.5                               | 79.0                           | O K                                                                                 |
| 4320 min Winter                                                       | 1.359                        | 0.359                              | 0.0                                       | 9.0                              | 9.0                                | 56.8                           | O K                                                                                 |
| 5760 min Winter                                                       | 1.283                        | 0.283                              | 0.0                                       | 7.1                              | 7.1                                | 44.8                           | O K                                                                                 |
| 7200 min Winter                                                       | 1.237                        | 0.237                              | 0.0                                       | 5.9                              | 5.9                                | 37.5                           | O K                                                                                 |
| 8640 min Winter                                                       | 1.206                        | 0.206                              | 0.0                                       | 5.1                              | 5.1                                | 32.5                           | O K                                                                                 |
| 10080 min Winter                                                      | 1.183                        | 0.183                              | 0.0                                       | 4.6                              | 4.6                                | 28.9                           | O K                                                                                 |
|                                                                       |                              |                                    |                                           |                                  |                                    |                                |                                                                                     |
| <b>Storm<br/>Event</b>                                                | <b>Rain<br/>(mm/hr)</b>      | <b>Flooded<br/>Volume<br/>(m³)</b> | <b>Discharge<br/>Volume<br/>(m³)</b>      | <b>Time-Peak<br/>(mins)</b>      |                                    |                                |                                                                                     |
| 30 min Winter                                                         | 106.079                      | 0.0                                | 286.0                                     | 45                               |                                    |                                |                                                                                     |
| 60 min Winter                                                         | 66.043                       | 0.0                                | 356.2                                     | 68                               |                                    |                                |                                                                                     |
| 120 min Winter                                                        | 40.674                       | 0.0                                | 438.7                                     | 112                              |                                    |                                |                                                                                     |
| 180 min Winter                                                        | 30.745                       | 0.0                                | 497.4                                     | 148                              |                                    |                                |                                                                                     |
| 240 min Winter                                                        | 25.190                       | 0.0                                | 543.4                                     | 186                              |                                    |                                |                                                                                     |
| 360 min Winter                                                        | 18.924                       | 0.0                                | 612.3                                     | 258                              |                                    |                                |                                                                                     |
| 480 min Winter                                                        | 15.309                       | 0.0                                | 660.5                                     | 326                              |                                    |                                |                                                                                     |
| 600 min Winter                                                        | 12.911                       | 0.0                                | 696.3                                     | 388                              |                                    |                                |                                                                                     |
| 720 min Winter                                                        | 11.192                       | 0.0                                | 724.3                                     | 446                              |                                    |                                |                                                                                     |
| 960 min Winter                                                        | 8.868                        | 0.0                                | 765.1                                     | 566                              |                                    |                                |                                                                                     |
| 1440 min Winter                                                       | 6.306                        | 0.0                                | 816.1                                     | 812                              |                                    |                                |                                                                                     |
| 2160 min Winter                                                       | 4.438                        | 0.0                                | 861.4                                     | 1176                             |                                    |                                |                                                                                     |
| 2880 min Winter                                                       | 3.453                        | 0.0                                | 893.8                                     | 1540                             |                                    |                                |                                                                                     |
| 4320 min Winter                                                       | 2.428                        | 0.0                                | 942.6                                     | 2260                             |                                    |                                |                                                                                     |
| 5760 min Winter                                                       | 1.899                        | 0.0                                | 983.1                                     | 3000                             |                                    |                                |                                                                                     |
| 7200 min Winter                                                       | 1.581                        | 0.0                                | 1023.1                                    | 3688                             |                                    |                                |                                                                                     |
| 8640 min Winter                                                       | 1.367                        | 0.0                                | 1061.7                                    | 4416                             |                                    |                                |                                                                                     |
| 10080 min Winter                                                      | 1.213                        | 0.0                                | 1099.2                                    | 5144                             |                                    |                                |                                                                                     |
|                                                                       |                              |                                    |                                           |                                  |                                    |                                |                                                                                     |
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| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                           | Page 3                                                                              |             |             |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------|-------------|-------------|-------------|------|-------------|------|-----------|------|-----------|------|-----------|------|-----|-------|------|-------|-------|-------|-----|-------|-------|-------|-------|-------|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | BLOCK E<br>GEOCELLULAR STORAGE<br>OUTLINE |  |             |             |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| Date 14/07/2022 00:08<br>File 20220713-Block E - Geoc...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Designed by EAS<br>Checked by             |                                                                                     |             |             |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                           |                                                                                     |             |             |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| Source Control 2020.1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |                                                                                     |             |             |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| <div>Rainfall Details</div> <div><div>Rainfall Model</div><div>FEH</div></div> <div><div>Return Period (years)</div><div>100</div></div> <div><div>FEH Rainfall Version</div><div>2013</div></div> <div><div>Site Location</div><div>GB 623065 309383 TG 23065 09383</div></div> <div><div>Data Type</div><div>Point</div></div> <div><div>Summer Storms</div><div>Yes</div></div> <div><div>Winter Storms</div><div>Yes</div></div> <div><div>Cv (Summer)</div><div>0.750</div></div> <div><div>Cv (Winter)</div><div>0.840</div></div> <div><div>Shortest Storm (mins)</div><div>15</div></div> <div><div>Longest Storm (mins)</div><div>10080</div></div> <div><div>Climate Change %</div><div>+45</div></div> <div>Time Area Diagram</div> <div>Total Area (ha) 0.642</div> <div><table><tr><th>Time (mins)</th><th>Area</th><th>Time (mins)</th><th>Area</th><th>Time (mins)</th><th>Area</th></tr><tr><th>From: To:</th><th>(ha)</th><th>From: To:</th><th>(ha)</th><th>From: To:</th><th>(ha)</th></tr><tr><td>0 4</td><td>0.107</td><td>8 12</td><td>0.107</td><td>16 20</td><td>0.107</td></tr><tr><td>4 8</td><td>0.107</td><td>12 16</td><td>0.107</td><td>20 24</td><td>0.107</td></tr></table></div> |                                           |                                                                                     | Time (mins) | Area        | Time (mins) | Area | Time (mins) | Area | From: To: | (ha) | From: To: | (ha) | From: To: | (ha) | 0 4 | 0.107 | 8 12 | 0.107 | 16 20 | 0.107 | 4 8 | 0.107 | 12 16 | 0.107 | 20 24 | 0.107 |
| Time (mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Area                                      | Time (mins)                                                                         | Area        | Time (mins) | Area        |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| From: To:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | (ha)                                      | From: To:                                                                           | (ha)        | From: To:   | (ha)        |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| 0 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.107                                     | 8 12                                                                                | 0.107       | 16 20       | 0.107       |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| 4 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.107                                     | 12 16                                                                               | 0.107       | 20 24       | 0.107       |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
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| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           | Page 4                                                                              |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------|------------|-----------|----------------|-----------|------------|----------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-----|-----|-------|-------|-----|--|--|--|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-------|--------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|--|--|-------|---------|-------|---------|-------|---------|--|--|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BLOCK E<br>GEOCELLULAR STORAGE<br>OUTLINE |  |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Date 14/07/2022 00:08<br>File 20220713-Block E - Geoc...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Designed by EAS<br>Checked by             |                                                                                     |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |                                                                                     |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Source Control 2020.1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                                                                                     |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| <div>Model Details</div> <div>Storage is Online Cover Level (m) 4.500</div> <div>Cellular Storage Structure</div> <div>Invert Level (m) 1.000 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95<br/>Infiltration Coefficient Side (m/hr) 0.00000</div> <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr><tr><td>0.000</td><td>166.4</td><td>0.0</td><td>1.980</td><td>166.4</td><td>0.0</td></tr><tr><td>0.660</td><td>166.4</td><td>0.0</td><td>1.981</td><td>0.0</td><td>0.0</td></tr><tr><td>1.320</td><td>166.4</td><td>0.0</td><td></td><td></td><td></td></tr></table> <div>Pump Outflow Control</div> <div>Invert Level (m) 1.000</div> <table><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr><tr><td>0.200</td><td>5.0000</td><td>1.800</td><td>30.0000</td><td>3.400</td><td>30.0000</td><td>5.000</td><td>30.0000</td></tr><tr><td>0.400</td><td>10.0000</td><td>2.000</td><td>30.0000</td><td>3.600</td><td>30.0000</td><td>5.200</td><td>30.0000</td></tr><tr><td>0.600</td><td>15.0000</td><td>2.200</td><td>30.0000</td><td>3.800</td><td>30.0000</td><td>5.400</td><td>30.0000</td></tr><tr><td>0.800</td><td>20.0000</td><td>2.400</td><td>30.0000</td><td>4.000</td><td>30.0000</td><td>5.600</td><td>30.0000</td></tr><tr><td>1.000</td><td>25.0000</td><td>2.600</td><td>30.0000</td><td>4.200</td><td>30.0000</td><td>5.800</td><td>30.0000</td></tr><tr><td>1.200</td><td>30.0000</td><td>2.800</td><td>30.0000</td><td>4.400</td><td>30.0000</td><td>6.000</td><td>30.0000</td></tr><tr><td>1.400</td><td>30.0000</td><td>3.000</td><td>30.0000</td><td>4.600</td><td>30.0000</td><td></td><td></td></tr><tr><td>1.600</td><td>30.0000</td><td>3.200</td><td>30.0000</td><td>4.800</td><td>30.0000</td><td></td><td></td></tr></table> |                                           |                                                                                     | Depth (m)  | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²)  | Inf. Area (m²) | 0.000 | 166.4 | 0.0 | 1.980 | 166.4 | 0.0 | 0.660 | 166.4 | 0.0 | 1.981 | 0.0 | 0.0 | 1.320 | 166.4 | 0.0 |  |  |  | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | 0.200 | 5.0000 | 1.800 | 30.0000 | 3.400 | 30.0000 | 5.000 | 30.0000 | 0.400 | 10.0000 | 2.000 | 30.0000 | 3.600 | 30.0000 | 5.200 | 30.0000 | 0.600 | 15.0000 | 2.200 | 30.0000 | 3.800 | 30.0000 | 5.400 | 30.0000 | 0.800 | 20.0000 | 2.400 | 30.0000 | 4.000 | 30.0000 | 5.600 | 30.0000 | 1.000 | 25.0000 | 2.600 | 30.0000 | 4.200 | 30.0000 | 5.800 | 30.0000 | 1.200 | 30.0000 | 2.800 | 30.0000 | 4.400 | 30.0000 | 6.000 | 30.0000 | 1.400 | 30.0000 | 3.000 | 30.0000 | 4.600 | 30.0000 |  |  | 1.600 | 30.0000 | 3.200 | 30.0000 | 4.800 | 30.0000 |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Area (m²)                                 | Inf. Area (m²)                                                                      | Depth (m)  | Area (m²) | Inf. Area (m²) |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 166.4                                     | 0.0                                                                                 | 1.980      | 166.4     | 0.0            |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.660                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 166.4                                     | 0.0                                                                                 | 1.981      | 0.0       | 0.0            |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 166.4                                     | 0.0                                                                                 |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Flow (l/s)                                | Depth (m)                                                                           | Flow (l/s) | Depth (m) | Flow (l/s)     | Depth (m) | Flow (l/s) |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5.0000                                    | 1.800                                                                               | 30.0000    | 3.400     | 30.0000        | 5.000     | 30.0000    |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10.0000                                   | 2.000                                                                               | 30.0000    | 3.600     | 30.0000        | 5.200     | 30.0000    |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 15.0000                                   | 2.200                                                                               | 30.0000    | 3.800     | 30.0000        | 5.400     | 30.0000    |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 20.0000                                   | 2.400                                                                               | 30.0000    | 4.000     | 30.0000        | 5.600     | 30.0000    |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 25.0000                                   | 2.600                                                                               | 30.0000    | 4.200     | 30.0000        | 5.800     | 30.0000    |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 30.0000                                   | 2.800                                                                               | 30.0000    | 4.400     | 30.0000        | 6.000     | 30.0000    |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 30.0000                                   | 3.000                                                                               | 30.0000    | 4.600     | 30.0000        |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 30.0000                                   | 3.200                                                                               | 30.0000    | 4.800     | 30.0000        |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
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EAS Transport Planning

Unit 23, The Maltings  
Stanstead Abbotts  
Hertfordshire, SG12 8HG

Date 14/07/2022 00:04  
File 20220713-Block F - Geoc...

Innovyze

BLOCK F  
GEOCELLULAR STORAGE  
OUTLINE

Designed by EAS  
Checked by

Source Control 2020.1.3

Page 1



Summary of Results for 100 year Return Period (+45%)

Half Drain Time : 91 minutes.

| Storm Event      | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Control (l/s) | Max Σ Outflow (l/s) | Max Volume (m³) | Status |
|------------------|---------------|---------------|------------------------|-------------------|---------------------|-----------------|--------|
| 15 min Summer    | 1.542         | 1.042         | 0.0                    | 20.0              | 20.0                | 111.5           | O K    |
| 30 min Summer    | 1.847         | 1.347         | 0.0                    | 20.0              | 20.0                | 144.1           | O K    |
| 60 min Summer    | 2.077         | 1.577         | 0.0                    | 20.0              | 20.0                | 168.7           | O K    |
| 120 min Summer   | 2.199         | 1.699         | 0.0                    | 20.0              | 20.0                | 181.7           | O K    |
| 180 min Summer   | 2.230         | 1.730         | 0.0                    | 20.0              | 20.0                | 185.1           | O K    |
| 240 min Summer   | 2.221         | 1.721         | 0.0                    | 20.0              | 20.0                | 184.1           | O K    |
| 360 min Summer   | 2.138         | 1.638         | 0.0                    | 20.0              | 20.0                | 175.2           | O K    |
| 480 min Summer   | 2.011         | 1.511         | 0.0                    | 20.0              | 20.0                | 161.6           | O K    |
| 600 min Summer   | 1.872         | 1.372         | 0.0                    | 20.0              | 20.0                | 146.8           | O K    |
| 720 min Summer   | 1.737         | 1.237         | 0.0                    | 20.0              | 20.0                | 132.3           | O K    |
| 960 min Summer   | 1.501         | 1.001         | 0.0                    | 20.0              | 20.0                | 107.0           | O K    |
| 1440 min Summer  | 1.238         | 0.738         | 0.0                    | 18.4              | 18.4                | 78.9            | O K    |
| 2160 min Summer  | 1.062         | 0.562         | 0.0                    | 14.0              | 14.0                | 60.1            | O K    |
| 2880 min Summer  | 0.956         | 0.456         | 0.0                    | 11.4              | 11.4                | 48.8            | O K    |
| 4320 min Summer  | 0.835         | 0.335         | 0.0                    | 8.4               | 8.4                 | 35.8            | O K    |
| 5760 min Summer  | 0.768         | 0.268         | 0.0                    | 6.7               | 6.7                 | 28.7            | O K    |
| 7200 min Summer  | 0.726         | 0.226         | 0.0                    | 5.7               | 5.7                 | 24.2            | O K    |
| 8640 min Summer  | 0.697         | 0.197         | 0.0                    | 4.9               | 4.9                 | 21.1            | O K    |
| 10080 min Summer | 0.676         | 0.176         | 0.0                    | 4.4               | 4.4                 | 18.8            | O K    |
| 15 min Winter    | 1.680         | 1.180         | 0.0                    | 20.0              | 20.0                | 126.2           | O K    |

| Storm Event      | Rain (mm/hr) | Flooded Volume (m³) | Discharge Volume (m³) | Time-Peak (mins) |
|------------------|--------------|---------------------|-----------------------|------------------|
| 15 min Summer    | 161.698      | 0.0                 | 135.5                 | 33               |
| 30 min Summer    | 106.079      | 0.0                 | 177.8                 | 44               |
| 60 min Summer    | 66.043       | 0.0                 | 221.4                 | 66               |
| 120 min Summer   | 40.674       | 0.0                 | 272.7                 | 104              |
| 180 min Summer   | 30.745       | 0.0                 | 309.2                 | 138              |
| 240 min Summer   | 25.190       | 0.0                 | 337.8                 | 172              |
| 360 min Summer   | 18.924       | 0.0                 | 380.7                 | 240              |
| 480 min Summer   | 15.309       | 0.0                 | 410.6                 | 306              |
| 600 min Summer   | 12.911       | 0.0                 | 432.8                 | 370              |
| 720 min Summer   | 11.192       | 0.0                 | 450.3                 | 432              |
| 960 min Summer   | 8.868        | 0.0                 | 475.6                 | 548              |
| 1440 min Summer  | 6.306        | 0.0                 | 507.4                 | 776              |
| 2160 min Summer  | 4.438        | 0.0                 | 535.5                 | 1136             |
| 2880 min Summer  | 3.453        | 0.0                 | 555.6                 | 1500             |
| 4320 min Summer  | 2.428        | 0.0                 | 586.0                 | 2220             |
| 5760 min Summer  | 1.899        | 0.0                 | 611.1                 | 2944             |
| 7200 min Summer  | 1.581        | 0.0                 | 636.0                 | 3680             |
| 8640 min Summer  | 1.367        | 0.0                 | 660.0                 | 4408             |
| 10080 min Summer | 1.213        | 0.0                 | 683.4                 | 5144             |
| 15 min Winter    | 161.698      | 0.0                 | 151.7                 | 34               |

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|                                                                       |                     |                           |                                           |                         |                              |                       |                                                                                     |  |
|-----------------------------------------------------------------------|---------------------|---------------------------|-------------------------------------------|-------------------------|------------------------------|-----------------------|-------------------------------------------------------------------------------------|--|
| EAS Transport Planning                                                |                     |                           |                                           |                         |                              |                       | Page 2                                                                              |  |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |                     |                           | BLOCK F<br>GEOCELLULAR STORAGE<br>OUTLINE |                         |                              |                       |  |  |
| Date 14/07/2022 00:04<br>File 20220713-Block F - Geoc...              |                     |                           | Designed by EAS<br>Checked by             |                         |                              |                       |                                                                                     |  |
| Innovyze                                                              |                     |                           | Source Control 2020.1.3                   |                         |                              |                       |                                                                                     |  |
| Summary of Results for 100 year Return Period (+45%)                  |                     |                           |                                           |                         |                              |                       |                                                                                     |  |
| Storm<br>Event                                                        | Max<br>Level<br>(m) | Max<br>Depth<br>(m)       | Max<br>Infiltration<br>(l/s)              | Max<br>Control<br>(l/s) | Max<br>E<br>Outflow<br>(l/s) | Max<br>Volume<br>(m³) | Status                                                                              |  |
| 30 min Winter                                                         | 2.031               | 1.531                     | 0.0                                       | 20.0                    | 20.0                         | 163.8                 | O K                                                                                 |  |
| 60 min Winter                                                         | 2.302               | 1.802                     | 0.0                                       | 20.0                    | 20.0                         | 192.8                 | O K                                                                                 |  |
| 120 min Winter                                                        | 2.442               | 1.942                     | 0.0                                       | 20.0                    | 20.0                         | 207.7                 | O K                                                                                 |  |
| 180 min Winter                                                        | 2.454               | 1.954                     | 0.0                                       | 20.0                    | 20.0                         | 209.1                 | O K                                                                                 |  |
| 240 min Winter                                                        | 2.418               | 1.918                     | 0.0                                       | 20.0                    | 20.0                         | 205.2                 | O K                                                                                 |  |
| 360 min Winter                                                        | 2.262               | 1.762                     | 0.0                                       | 20.0                    | 20.0                         | 188.5                 | O K                                                                                 |  |
| 480 min Winter                                                        | 2.053               | 1.553                     | 0.0                                       | 20.0                    | 20.0                         | 166.1                 | O K                                                                                 |  |
| 600 min Winter                                                        | 1.836               | 1.336                     | 0.0                                       | 20.0                    | 20.0                         | 142.9                 | O K                                                                                 |  |
| 720 min Winter                                                        | 1.635               | 1.135                     | 0.0                                       | 20.0                    | 20.0                         | 121.5                 | O K                                                                                 |  |
| 960 min Winter                                                        | 1.332               | 0.832                     | 0.0                                       | 20.0                    | 20.0                         | 89.0                  | O K                                                                                 |  |
| 1440 min Winter                                                       | 1.119               | 0.619                     | 0.0                                       | 15.5                    | 15.5                         | 66.2                  | O K                                                                                 |  |
| 2160 min Winter                                                       | 0.950               | 0.450                     | 0.0                                       | 11.3                    | 11.3                         | 48.1                  | O K                                                                                 |  |
| 2880 min Winter                                                       | 0.855               | 0.355                     | 0.0                                       | 8.9                     | 8.9                          | 38.0                  | O K                                                                                 |  |
| 4320 min Winter                                                       | 0.753               | 0.253                     | 0.0                                       | 6.3                     | 6.3                          | 27.1                  | O K                                                                                 |  |
| 5760 min Winter                                                       | 0.699               | 0.199                     | 0.0                                       | 5.0                     | 5.0                          | 21.3                  | O K                                                                                 |  |
| 7200 min Winter                                                       | 0.666               | 0.166                     | 0.0                                       | 4.2                     | 4.2                          | 17.8                  | O K                                                                                 |  |
| 8640 min Winter                                                       | 0.644               | 0.144                     | 0.0                                       | 3.6                     | 3.6                          | 15.4                  | O K                                                                                 |  |
| 10080 min Winter                                                      | 0.628               | 0.128                     | 0.0                                       | 3.2                     | 3.2                          | 13.7                  | O K                                                                                 |  |
|                                                                       |                     |                           |                                           |                         |                              |                       |                                                                                     |  |
| Storm<br>Event                                                        | Rain<br>(mm/hr)     | Flooded<br>Volume<br>(m³) | Discharge<br>Volume<br>(m³)               | Time-Peak<br>(mins)     |                              |                       |                                                                                     |  |
| 30 min Winter                                                         | 106.079             | 0.0                       | 199.2                                     | 45                      |                              |                       |                                                                                     |  |
| 60 min Winter                                                         | 66.043              | 0.0                       | 248.0                                     | 68                      |                              |                       |                                                                                     |  |
| 120 min Winter                                                        | 40.674              | 0.0                       | 305.4                                     | 114                     |                              |                       |                                                                                     |  |
| 180 min Winter                                                        | 30.745              | 0.0                       | 346.3                                     | 148                     |                              |                       |                                                                                     |  |
| 240 min Winter                                                        | 25.190              | 0.0                       | 378.3                                     | 186                     |                              |                       |                                                                                     |  |
| 360 min Winter                                                        | 18.924              | 0.0                       | 426.3                                     | 260                     |                              |                       |                                                                                     |  |
| 480 min Winter                                                        | 15.309              | 0.0                       | 459.9                                     | 328                     |                              |                       |                                                                                     |  |
| 600 min Winter                                                        | 12.911              | 0.0                       | 484.8                                     | 392                     |                              |                       |                                                                                     |  |
| 720 min Winter                                                        | 11.192              | 0.0                       | 504.2                                     | 452                     |                              |                       |                                                                                     |  |
| 960 min Winter                                                        | 8.868               | 0.0                       | 532.7                                     | 554                     |                              |                       |                                                                                     |  |
| 1440 min Winter                                                       | 6.306               | 0.0                       | 568.3                                     | 790                     |                              |                       |                                                                                     |  |
| 2160 min Winter                                                       | 4.438               | 0.0                       | 599.8                                     | 1152                    |                              |                       |                                                                                     |  |
| 2880 min Winter                                                       | 3.453               | 0.0                       | 622.3                                     | 1512                    |                              |                       |                                                                                     |  |
| 4320 min Winter                                                       | 2.428               | 0.0                       | 656.3                                     | 2228                    |                              |                       |                                                                                     |  |
| 5760 min Winter                                                       | 1.899               | 0.0                       | 684.4                                     | 2952                    |                              |                       |                                                                                     |  |
| 7200 min Winter                                                       | 1.581               | 0.0                       | 712.3                                     | 3680                    |                              |                       |                                                                                     |  |
| 8640 min Winter                                                       | 1.367               | 0.0                       | 739.2                                     | 4416                    |                              |                       |                                                                                     |  |
| 10080 min Winter                                                      | 1.213               | 0.0                       | 765.4                                     | 5144                    |                              |                       |                                                                                     |  |
|                                                                       |                     |                           |                                           |                         |                              |                       |                                                                                     |  |
| ©1982-2020 Innovyze                                                   |                     |                           |                                           |                         |                              |                       |                                                                                     |  |

| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           | Page 3                                                                              |                |             |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------|----------------|-------------|-----------------------|-----|----------------------|------|---------------|---------------------------------|-----------|-------|---------------|-----|---------------|-----|-------------|-------|-------------|-------|-----------------------|----|----------------------|-------|------------------|-----|-------------|------|-------------|------|-------------|------|-----------|------|-----------|------|-----------|------|-----|-------|------|-------|-------|-------|-----|-------|-------|-------|-------|-------|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BLOCK F<br>GEOCELLULAR STORAGE<br>OUTLINE |  |                |             |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| Date 14/07/2022 00:04<br>File 20220713-Block F - Geoc...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Designed by EAS<br>Checked by             |                                                                                     |                |             |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Source Control 2020.1.3                   |                                                                                     |                |             |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| <div>Rainfall Details</div> <table><tr><td>Rainfall Model</td><td>FEH</td></tr><tr><td>Return Period (years)</td><td>100</td></tr><tr><td>FEH Rainfall Version</td><td>2013</td></tr><tr><td>Site Location</td><td>GB 623065 309383 TG 23065 09383</td></tr><tr><td>Data Type</td><td>Point</td></tr><tr><td>Summer Storms</td><td>Yes</td></tr><tr><td>Winter Storms</td><td>Yes</td></tr><tr><td>Cv (Summer)</td><td>0.750</td></tr><tr><td>Cv (Winter)</td><td>0.840</td></tr><tr><td>Shortest Storm (mins)</td><td>15</td></tr><tr><td>Longest Storm (mins)</td><td>10080</td></tr><tr><td>Climate Change %</td><td>+45</td></tr></table> <div>Time Area Diagram</div> <p>Total Area (ha) 0.447</p> <table><tr><th>Time (mins)</th><th>Area</th><th>Time (mins)</th><th>Area</th><th>Time (mins)</th><th>Area</th></tr><tr><th>From: To:</th><th>(ha)</th><th>From: To:</th><th>(ha)</th><th>From: To:</th><th>(ha)</th></tr><tr><td>0 4</td><td>0.075</td><td>8 12</td><td>0.075</td><td>16 20</td><td>0.074</td></tr><tr><td>4 8</td><td>0.075</td><td>12 16</td><td>0.074</td><td>20 24</td><td>0.074</td></tr></table> |                                           |                                                                                     | Rainfall Model | FEH         | Return Period (years) | 100 | FEH Rainfall Version | 2013 | Site Location | GB 623065 309383 TG 23065 09383 | Data Type | Point | Summer Storms | Yes | Winter Storms | Yes | Cv (Summer) | 0.750 | Cv (Winter) | 0.840 | Shortest Storm (mins) | 15 | Longest Storm (mins) | 10080 | Climate Change % | +45 | Time (mins) | Area | Time (mins) | Area | Time (mins) | Area | From: To: | (ha) | From: To: | (ha) | From: To: | (ha) | 0 4 | 0.075 | 8 12 | 0.075 | 16 20 | 0.074 | 4 8 | 0.075 | 12 16 | 0.074 | 20 24 | 0.074 |
| Rainfall Model                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FEH                                       |                                                                                     |                |             |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| Return Period (years)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 100                                       |                                                                                     |                |             |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| FEH Rainfall Version                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2013                                      |                                                                                     |                |             |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| Site Location                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | GB 623065 309383 TG 23065 09383           |                                                                                     |                |             |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| Data Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Point                                     |                                                                                     |                |             |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| Summer Storms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Yes                                       |                                                                                     |                |             |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| Winter Storms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Yes                                       |                                                                                     |                |             |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| Cv (Summer)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.750                                     |                                                                                     |                |             |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| Cv (Winter)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.840                                     |                                                                                     |                |             |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| Shortest Storm (mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 15                                        |                                                                                     |                |             |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| Longest Storm (mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10080                                     |                                                                                     |                |             |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| Climate Change %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | +45                                       |                                                                                     |                |             |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| Time (mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Area                                      | Time (mins)                                                                         | Area           | Time (mins) | Area                  |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| From: To:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | (ha)                                      | From: To:                                                                           | (ha)           | From: To:   | (ha)                  |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| 0 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.075                                     | 8 12                                                                                | 0.075          | 16 20       | 0.074                 |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| 4 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.075                                     | 12 16                                                                               | 0.074          | 20 24       | 0.074                 |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| ©1982-2020 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                           |                                                                                     |                |             |                       |     |                      |      |               |                                 |           |       |               |     |               |     |             |       |             |       |                       |    |                      |       |                  |     |             |      |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |

| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           | Page 4                                                                              |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
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| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BLOCK F<br>GEOCELLULAR STORAGE<br>OUTLINE |  |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Date 14/07/2022 00:04<br>File 20220713-Block F - Geoc...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Designed by EAS<br>Checked by             |                                                                                     |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                           |                                                                                     |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Source Control 2020.1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                           |                                                                                     |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| <div>Model Details</div> <div>Storage is Online Cover Level (m) 4.050</div> <div>Cellular Storage Structure</div> <div>Invert Level (m) 0.500 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95<br/>Infiltration Coefficient Side (m/hr) 0.00000</div> <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr><tr><td>0.000</td><td>112.6</td><td>0.0</td><td>1.980</td><td>112.6</td><td>0.0</td></tr><tr><td>0.660</td><td>112.6</td><td>0.0</td><td>1.981</td><td>0.0</td><td>0.0</td></tr><tr><td>1.320</td><td>112.6</td><td>0.0</td><td></td><td></td><td></td></tr></table> <div>Pump Outflow Control</div> <div>Invert Level (m) 0.500</div> <table><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr><tr><td>0.200</td><td>5.0000</td><td>1.800</td><td>20.0000</td><td>3.400</td><td>20.0000</td><td>5.000</td><td>20.0000</td></tr><tr><td>0.400</td><td>10.0000</td><td>2.000</td><td>20.0000</td><td>3.600</td><td>20.0000</td><td>5.200</td><td>20.0000</td></tr><tr><td>0.600</td><td>15.0000</td><td>2.200</td><td>20.0000</td><td>3.800</td><td>20.0000</td><td>5.400</td><td>20.0000</td></tr><tr><td>0.800</td><td>20.0000</td><td>2.400</td><td>20.0000</td><td>4.000</td><td>20.0000</td><td>5.600</td><td>20.0000</td></tr><tr><td>1.000</td><td>20.0000</td><td>2.600</td><td>20.0000</td><td>4.200</td><td>20.0000</td><td>5.800</td><td>20.0000</td></tr><tr><td>1.200</td><td>20.0000</td><td>2.800</td><td>20.0000</td><td>4.400</td><td>20.0000</td><td>6.000</td><td>20.0000</td></tr><tr><td>1.400</td><td>20.0000</td><td>3.000</td><td>20.0000</td><td>4.600</td><td>20.0000</td><td></td><td></td></tr><tr><td>1.600</td><td>20.0000</td><td>3.200</td><td>20.0000</td><td>4.800</td><td>20.0000</td><td></td><td></td></tr></table> |                                           |                                                                                     | Depth (m)  | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²)  | Inf. Area (m²) | 0.000 | 112.6 | 0.0 | 1.980 | 112.6 | 0.0 | 0.660 | 112.6 | 0.0 | 1.981 | 0.0 | 0.0 | 1.320 | 112.6 | 0.0 |  |  |  | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | 0.200 | 5.0000 | 1.800 | 20.0000 | 3.400 | 20.0000 | 5.000 | 20.0000 | 0.400 | 10.0000 | 2.000 | 20.0000 | 3.600 | 20.0000 | 5.200 | 20.0000 | 0.600 | 15.0000 | 2.200 | 20.0000 | 3.800 | 20.0000 | 5.400 | 20.0000 | 0.800 | 20.0000 | 2.400 | 20.0000 | 4.000 | 20.0000 | 5.600 | 20.0000 | 1.000 | 20.0000 | 2.600 | 20.0000 | 4.200 | 20.0000 | 5.800 | 20.0000 | 1.200 | 20.0000 | 2.800 | 20.0000 | 4.400 | 20.0000 | 6.000 | 20.0000 | 1.400 | 20.0000 | 3.000 | 20.0000 | 4.600 | 20.0000 |  |  | 1.600 | 20.0000 | 3.200 | 20.0000 | 4.800 | 20.0000 |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Area (m²)                                 | Inf. Area (m²)                                                                      | Depth (m)  | Area (m²) | Inf. Area (m²) |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 112.6                                     | 0.0                                                                                 | 1.980      | 112.6     | 0.0            |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.660                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 112.6                                     | 0.0                                                                                 | 1.981      | 0.0       | 0.0            |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 112.6                                     | 0.0                                                                                 |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Flow (l/s)                                | Depth (m)                                                                           | Flow (l/s) | Depth (m) | Flow (l/s)     | Depth (m) | Flow (l/s) |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5.0000                                    | 1.800                                                                               | 20.0000    | 3.400     | 20.0000        | 5.000     | 20.0000    |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10.0000                                   | 2.000                                                                               | 20.0000    | 3.600     | 20.0000        | 5.200     | 20.0000    |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 15.0000                                   | 2.200                                                                               | 20.0000    | 3.800     | 20.0000        | 5.400     | 20.0000    |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 20.0000                                   | 2.400                                                                               | 20.0000    | 4.000     | 20.0000        | 5.600     | 20.0000    |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 20.0000                                   | 2.600                                                                               | 20.0000    | 4.200     | 20.0000        | 5.800     | 20.0000    |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 20.0000                                   | 2.800                                                                               | 20.0000    | 4.400     | 20.0000        | 6.000     | 20.0000    |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 20.0000                                   | 3.000                                                                               | 20.0000    | 4.600     | 20.0000        |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 20.0000                                   | 3.200                                                                               | 20.0000    | 4.800     | 20.0000        |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| ©1982-2020 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                           |                                                                                     |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |

| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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            |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     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-----------------|--------|---------------|-------|-------|-----|------|------|-------|-----|---------------|-------|-------|-----|------|------|-------|-----|---------------|-------|-------|-----|------|------|-------|-----|----------------|-------|-------|-----|------|------|-------|-----|----------------|-------|-------|-----|------|------|-------|-----|----------------|-------|-------|-----|------|------|-------|-----|----------------|-------|-------|-----|------|------|-------|-----|----------------|-------|-------|-----|------|------|-------|-----|----------------|-------|-------|-----|------|------|-------|-----|----------------|-------|-------|-----|------|------|-------|-----|----------------|-------|-------|-----|------|------|-------|-----|-----------------|-------|-------|-----|------|------|-------|-----|-----------------|-------|-------|-----|------|------|-------|-----|-----------------|-------|-------|-----|------|------|-------|-----|-----------------|-------|-------|-----|------|------|-------|-----|-----------------|-------|-------|-----|------|------|------|-----|-----------------|-------|-------|-----|------|------|------|-----|-----------------|-------|-------|-----|-----|-----|------|-----|------------------|-------|-------|-----|-----|-----|------|-----|---------------|-------|-------|-----|------|------|-------|-----|-------------|--------------|---------------------|-----------------------|------------------|---------------|---------|-----|-------|----|---------------|---------|-----|-------|----|---------------|--------|-----|-------|----|----------------|--------|-----|-------|-----|----------------|--------|-----|-------|-----|----------------|--------|-----|-------|-----|----------------|--------|-----|-------|-----|----------------|--------|-----|-------|-----|----------------|--------|-----|-------|-----|----------------|--------|-----|-------|-----|----------------|-------|-----|--------|-----|-----------------|-------|-----|--------|-----|-----------------|-------|-----|--------|------|-----------------|-------|-----|--------|------|-----------------|-------|-----|--------|------|-----------------|-------|-----|--------|------|-----------------|-------|-----|--------|------|-----------------|-------|-----|--------|------|------------------|-------|-----|--------|------|---------------|---------|-----|-------|----|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                     |                        | BLOCK G & J<br>GEOCELLULAR STORAGE<br>OUTLINE |                   |                 |  |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |   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| Date 13/07/2022 23:21<br>File 20220713-Block G-J - Ge...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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            |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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            |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| <p>Summary of Results for 100 year Return Period (+45%)</p> <p>Half Drain Time : 53 minutes.</p> <table><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Control (l/s)</th><th>Max Outflow (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr><tr><td>15 min Summer</td><td>1.112</td><td>1.112</td><td>0.0</td><td>70.0</td><td>70.0</td><td>206.9</td><td>O K</td></tr><tr><td>30 min Summer</td><td>1.404</td><td>1.404</td><td>0.0</td><td>70.0</td><td>70.0</td><td>261.2</td><td>O K</td></tr><tr><td>60 min Summer</td><td>1.654</td><td>1.654</td><td>0.0</td><td>70.0</td><td>70.0</td><td>307.7</td><td>O K</td></tr><tr><td>120 min Summer</td><td>1.770</td><td>1.770</td><td>0.0</td><td>70.0</td><td>70.0</td><td>329.2</td><td>O K</td></tr><tr><td>180 min Summer</td><td>1.775</td><td>1.775</td><td>0.0</td><td>70.0</td><td>70.0</td><td>330.3</td><td>O K</td></tr><tr><td>240 min Summer</td><td>1.734</td><td>1.734</td><td>0.0</td><td>70.0</td><td>70.0</td><td>322.5</td><td>O K</td></tr><tr><td>360 min Summer</td><td>1.579</td><td>1.579</td><td>0.0</td><td>70.0</td><td>70.0</td><td>293.6</td><td>O K</td></tr><tr><td>480 min Summer</td><td>1.390</td><td>1.390</td><td>0.0</td><td>70.0</td><td>70.0</td><td>258.5</td><td>O K</td></tr><tr><td>600 min Summer</td><td>1.218</td><td>1.218</td><td>0.0</td><td>70.0</td><td>70.0</td><td>226.5</td><td>O K</td></tr><tr><td>720 min Summer</td><td>1.085</td><td>1.085</td><td>0.0</td><td>70.0</td><td>70.0</td><td>201.8</td><td>O K</td></tr><tr><td>960 min Summer</td><td>0.978</td><td>0.978</td><td>0.0</td><td>64.4</td><td>64.4</td><td>181.9</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>0.910</td><td>0.910</td><td>0.0</td><td>47.6</td><td>47.6</td><td>169.3</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>0.856</td><td>0.856</td><td>0.0</td><td>33.9</td><td>33.9</td><td>159.2</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>0.821</td><td>0.821</td><td>0.0</td><td>25.3</td><td>25.3</td><td>152.7</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>0.633</td><td>0.633</td><td>0.0</td><td>16.7</td><td>16.7</td><td>117.7</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>0.500</td><td>0.500</td><td>0.0</td><td>13.5</td><td>13.5</td><td>93.0</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>0.410</td><td>0.410</td><td>0.0</td><td>11.2</td><td>11.2</td><td>76.2</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>0.328</td><td>0.328</td><td>0.0</td><td>9.9</td><td>9.9</td><td>61.0</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>0.269</td><td>0.269</td><td>0.0</td><td>9.0</td><td>9.0</td><td>50.0</td><td>O K</td></tr><tr><td>15 min Winter</td><td>1.232</td><td>1.232</td><td>0.0</td><td>70.0</td><td>70.0</td><td>229.1</td><td>O K</td></tr></table><br><table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Discharge Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>161.698</td><td>0.0</td><td>292.2</td><td>47</td></tr><tr><td>30 min Summer</td><td>106.079</td><td>0.0</td><td>383.4</td><td>56</td></tr><tr><td>60 min Summer</td><td>66.043</td><td>0.0</td><td>477.4</td><td>72</td></tr><tr><td>120 min Summer</td><td>40.674</td><td>0.0</td><td>588.2</td><td>106</td></tr><tr><td>180 min Summer</td><td>30.745</td><td>0.0</td><td>666.9</td><td>138</td></tr><tr><td>240 min Summer</td><td>25.190</td><td>0.0</td><td>728.5</td><td>170</td></tr><tr><td>360 min Summer</td><td>18.924</td><td>0.0</td><td>820.9</td><td>232</td></tr><tr><td>480 min Summer</td><td>15.309</td><td>0.0</td><td>885.4</td><td>292</td></tr><tr><td>600 min Summer</td><td>12.911</td><td>0.0</td><td>933.4</td><td>348</td></tr><tr><td>720 min Summer</td><td>11.192</td><td>0.0</td><td>970.9</td><td>404</td></tr><tr><td>960 min Summer</td><td>8.868</td><td>0.0</td><td>1025.8</td><td>512</td></tr><tr><td>1440 min Summer</td><td>6.306</td><td>0.0</td><td>1094.2</td><td>752</td></tr><tr><td>2160 min Summer</td><td>4.438</td><td>0.0</td><td>1154.9</td><td>1116</td></tr><tr><td>2880 min Summer</td><td>3.453</td><td>0.0</td><td>1198.3</td><td>1500</td></tr><tr><td>4320 min Summer</td><td>2.428</td><td>0.0</td><td>1263.7</td><td>2268</td></tr><tr><td>5760 min Summer</td><td>1.899</td><td>0.0</td><td>1317.9</td><td>3000</td></tr><tr><td>7200 min Summer</td><td>1.581</td><td>0.0</td><td>1371.7</td><td>3752</td></tr><tr><td>8640 min Summer</td><td>1.367</td><td>0.0</td><td>1423.4</td><td>4440</td></tr><tr><td>10080 min Summer</td><td>1.213</td><td>0.0</td><td>1473.8</td><td>5168</td></tr><tr><td>15 min Winter</td><td>161.698</td><td>0.0</td><td>327.2</td><td>47</td></tr></table> |               |                     |                        |                                               |                   |                 |                                                                                     |  | Storm Event | Max Level (m) | Max Depth (m) | Max Infiltration (l/s) | Max Control (l/s) | Max Outflow (l/s) | Max Volume (m³) | Status | 15 min Summer | 1.112 | 1.112 | 0.0 | 70.0 | 70.0 | 206.9 | O K | 30 min Summer | 1.404 | 1.404 | 0.0 | 70.0 | 70.0 | 261.2 | O K | 60 min Summer | 1.654 | 1.654 | 0.0 | 70.0 | 70.0 | 307.7 | O K | 120 min Summer | 1.770 | 1.770 | 0.0 | 70.0 | 70.0 | 329.2 | O K | 180 min Summer | 1.775 | 1.775 | 0.0 | 70.0 | 70.0 | 330.3 | O K | 240 min Summer | 1.734 | 1.734 | 0.0 | 70.0 | 70.0 | 322.5 | O K | 360 min Summer | 1.579 | 1.579 | 0.0 | 70.0 | 70.0 | 293.6 | O K | 480 min Summer | 1.390 | 1.390 | 0.0 | 70.0 | 70.0 | 258.5 | O K | 600 min Summer | 1.218 | 1.218 | 0.0 | 70.0 | 70.0 | 226.5 | O K | 720 min Summer | 1.085 | 1.085 | 0.0 | 70.0 | 70.0 | 201.8 | O K | 960 min Summer | 0.978 | 0.978 | 0.0 | 64.4 | 64.4 | 181.9 | O K | 1440 min Summer | 0.910 | 0.910 | 0.0 | 47.6 | 47.6 | 169.3 | O K | 2160 min Summer | 0.856 | 0.856 | 0.0 | 33.9 | 33.9 | 159.2 | O K | 2880 min Summer | 0.821 | 0.821 | 0.0 | 25.3 | 25.3 | 152.7 | O K | 4320 min Summer | 0.633 | 0.633 | 0.0 | 16.7 | 16.7 | 117.7 | O K | 5760 min Summer | 0.500 | 0.500 | 0.0 | 13.5 | 13.5 | 93.0 | O K | 7200 min Summer | 0.410 | 0.410 | 0.0 | 11.2 | 11.2 | 76.2 | O K | 8640 min Summer | 0.328 | 0.328 | 0.0 | 9.9 | 9.9 | 61.0 | O K | 10080 min Summer | 0.269 | 0.269 | 0.0 | 9.0 | 9.0 | 50.0 | O K | 15 min Winter | 1.232 | 1.232 | 0.0 | 70.0 | 70.0 | 229.1 | O K | Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Discharge Volume (m³) | Time-Peak (mins) | 15 min Summer | 161.698 | 0.0 | 292.2 | 47 | 30 min Summer | 106.079 | 0.0 | 383.4 | 56 | 60 min Summer | 66.043 | 0.0 | 477.4 | 72 | 120 min Summer | 40.674 | 0.0 | 588.2 | 106 | 180 min Summer | 30.745 | 0.0 | 666.9 | 138 | 240 min Summer | 25.190 | 0.0 | 728.5 | 170 | 360 min Summer | 18.924 | 0.0 | 820.9 | 232 | 480 min Summer | 15.309 | 0.0 | 885.4 | 292 | 600 min Summer | 12.911 | 0.0 | 933.4 | 348 | 720 min Summer | 11.192 | 0.0 | 970.9 | 404 | 960 min Summer | 8.868 | 0.0 | 1025.8 | 512 | 1440 min Summer | 6.306 | 0.0 | 1094.2 | 752 | 2160 min Summer | 4.438 | 0.0 | 1154.9 | 1116 | 2880 min Summer | 3.453 | 0.0 | 1198.3 | 1500 | 4320 min Summer | 2.428 | 0.0 | 1263.7 | 2268 | 5760 min Summer | 1.899 | 0.0 | 1317.9 | 3000 | 7200 min Summer | 1.581 | 0.0 | 1371.7 | 3752 | 8640 min Summer | 1.367 | 0.0 | 1423.4 | 4440 | 10080 min Summer | 1.213 | 0.0 | 1473.8 | 5168 | 15 min Winter | 161.698 | 0.0 | 327.2 | 47 |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Max Level (m) | Max Depth (m)       | Max Infiltration (l/s) | Max Control (l/s)                             | Max Outflow (l/s) | Max Volume (m³) | Status                                                                              |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.112         | 1.112               | 0.0                    | 70.0                                          | 70.0              | 206.9           | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.404         | 1.404               | 0.0                    | 70.0                                          | 70.0              | 261.2           | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.654         | 1.654               | 0.0                    | 70.0                                          | 70.0              | 307.7           | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.770         | 1.770               | 0.0                    | 70.0                                          | 70.0              | 329.2           | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.775         | 1.775               | 0.0                    | 70.0                                          | 70.0              | 330.3           | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     | 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|                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.734         | 1.734               | 0.0                    | 70.0                                          | 70.0              | 322.5           | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     | 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|                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.579         | 1.579               | 0.0                    | 70.0                                          | 70.0              | 293.6           | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     | 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| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.390         | 1.390               | 0.0                    | 70.0                                          | 70.0              | 258.5           | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     | 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| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.218         | 1.218               | 0.0                    | 70.0                                          | 70.0              | 226.5           | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1.085         | 1.085               | 0.0                    | 70.0                                          | 70.0              | 201.8           | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.978         | 0.978               | 0.0                    | 64.4                                          | 64.4              | 181.9           | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.910         | 0.910               | 0.0                    | 47.6                                          | 47.6              | 169.3           | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.856         | 0.856               | 0.0                    | 33.9                                          | 33.9              | 159.2           | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.821         | 0.821               | 0.0                    | 25.3                                          | 25.3              | 152.7           | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.633         | 0.633               | 0.0                    | 16.7                                          | 16.7              | 117.7           | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.500         | 0.500               | 0.0                    | 13.5                                          | 13.5              | 93.0            | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.410         | 0.410               | 0.0                    | 11.2                                          | 11.2              | 76.2            | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.328         | 0.328               | 0.0                    | 9.9                                           | 9.9               | 61.0            | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.269         | 0.269               | 0.0                    | 9.0                                           | 9.0               | 50.0            | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1.232         | 1.232               | 0.0                    | 70.0                                          | 70.0              | 229.1           | O K                                                                                 |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Rain (mm/hr)  | Flooded Volume (m³) | Discharge Volume (m³)  | Time-Peak (mins)                              |                   |                 |                                                                                     |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 161.698       | 0.0                 | 292.2                  | 47                                            |                   |                 |                                                                                     |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 106.079       | 0.0                 | 383.4                  | 56                                            |                   |                 |                                                                                     |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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            |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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            |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 30.745        | 0.0                 | 666.9                  | 138                                           |                   |                 |                                                                                     |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     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| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 25.190        | 0.0                 | 728.5                  | 170                                           |                   |                 |                                                                                     |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     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| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 18.924        | 0.0                 | 820.9                  | 232                                           |                   |                 |                                                                                     |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 15.309        | 0.0                 | 885.4                  | 292                                           |                   |                 |                                                                                     |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 12.911        | 0.0                 | 933.4                  | 348                                           |                   |                 |                                                                                     |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 11.192        | 0.0                 | 970.9                  | 404                                           |                   |                 |                                                                                     |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8.868         | 0.0                 | 1025.8                 | 512                                           |                   |                 |                                                                                     |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6.306         | 0.0                 | 1094.2                 | 752                                           |                   |                 |                                                                                     |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4.438         | 0.0                 | 1154.9                 | 1116                                          |                   |                 |                                                                                     |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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            |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2.428         | 0.0                 | 1263.7                 | 2268                                          |                   |                 |                                                                                     |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     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| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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            |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     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| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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            |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1.367         | 0.0                 | 1423.4                 | 4440                                          |                   |                 |                                                                                     |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.213         | 0.0                 | 1473.8                 | 5168                                          |                   |                 |                                                                                     |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 161.698       | 0.0                 | 327.2                  | 47                                            |                   |                 |                                                                                     |  |             |               |               |                        |                   |                   |                 |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |
| ©1982-2020 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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            |        |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |       |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |       |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |        |     |                 |       |     |        |     |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                 |       |     |        |      |                  |       |     |        |      |               |         |     |       |    |

| EAS Transport Planning                                                            |               |                     |                                               |                   |                     |                 | Page 2                                                                              |
|-----------------------------------------------------------------------------------|---------------|---------------------|-----------------------------------------------|-------------------|---------------------|-----------------|-------------------------------------------------------------------------------------|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG             |               |                     | BLOCK G & J<br>GEOCELLULAR STORAGE<br>OUTLINE |                   |                     |                 |  |
| Date 13/07/2022 23:21<br>File 20220713-Block G-J - Ge...                          |               |                     | Designed by EAS<br>Checked by                 |                   |                     |                 |                                                                                     |
| Innovyze                                                                          |               |                     | Source Control 2020.1.3                       |                   |                     |                 |                                                                                     |
| <p align="center"><u>Summary of Results for 100 year Return Period (+45%)</u></p> |               |                     |                                               |                   |                     |                 |                                                                                     |
| Storm Event                                                                       | Max Level (m) | Max Depth (m)       | Max Infiltration (l/s)                        | Max Control (l/s) | Max Σ Outflow (l/s) | Max Volume (m³) | Status                                                                              |
| 30 min Winter                                                                     | 1.589         | 1.589               | 0.0                                           | 70.0              | 70.0                | 295.6           | O K                                                                                 |
| 60 min Winter                                                                     | 1.882         | 1.882               | 0.0                                           | 70.0              | 70.0                | 350.2           | O K                                                                                 |
| 120 min Winter                                                                    | 3.991         | 3.991               | 0.0                                           | 70.0              | 70.0                | 370.4           | Flood Risk                                                                          |
| 180 min Winter                                                                    | 1.934         | 1.934               | 0.0                                           | 70.0              | 70.0                | 359.7           | O K                                                                                 |
| 240 min Winter                                                                    | 1.816         | 1.816               | 0.0                                           | 70.0              | 70.0                | 337.7           | O K                                                                                 |
| 360 min Winter                                                                    | 1.505         | 1.505               | 0.0                                           | 70.0              | 70.0                | 279.9           | O K                                                                                 |
| 480 min Winter                                                                    | 1.202         | 1.202               | 0.0                                           | 70.0              | 70.0                | 223.5           | O K                                                                                 |
| 600 min Winter                                                                    | 1.007         | 1.007               | 0.0                                           | 70.0              | 70.0                | 187.3           | O K                                                                                 |
| 720 min Winter                                                                    | 0.968         | 0.968               | 0.0                                           | 62.1              | 62.1                | 180.1           | O K                                                                                 |
| 960 min Winter                                                                    | 0.919         | 0.919               | 0.0                                           | 49.7              | 49.7                | 170.9           | O K                                                                                 |
| 1440 min Winter                                                                   | 0.863         | 0.863               | 0.0                                           | 35.7              | 35.7                | 160.4           | O K                                                                                 |
| 2160 min Winter                                                                   | 0.820         | 0.820               | 0.0                                           | 25.1              | 25.1                | 152.6           | O K                                                                                 |
| 2880 min Winter                                                                   | 0.712         | 0.712               | 0.0                                           | 18.2              | 18.2                | 132.4           | O K                                                                                 |
| 4320 min Winter                                                                   | 0.492         | 0.492               | 0.0                                           | 13.3              | 13.3                | 91.5            | O K                                                                                 |
| 5760 min Winter                                                                   | 0.358         | 0.358               | 0.0                                           | 10.4              | 10.4                | 66.6            | O K                                                                                 |
| 7200 min Winter                                                                   | 0.252         | 0.252               | 0.0                                           | 8.8               | 8.8                 | 46.8            | O K                                                                                 |
| 8640 min Winter                                                                   | 0.194         | 0.194               | 0.0                                           | 7.8               | 7.8                 | 36.1            | O K                                                                                 |
| 10080 min Winter                                                                  | 0.172         | 0.172               | 0.0                                           | 6.9               | 6.9                 | 32.0            | O K                                                                                 |
| Storm Event                                                                       | Rain (mm/hr)  | Flooded Volume (m³) | Discharge Volume (m³)                         | Time-Peak (mins)  |                     |                 |                                                                                     |
| 30 min Winter                                                                     | 106.079       | 0.0                 | 429.4                                         | 56                |                     |                 |                                                                                     |
| 60 min Winter                                                                     | 66.043        | 0.0                 | 534.8                                         | 74                |                     |                 |                                                                                     |
| 120 min Winter                                                                    | 40.674        | 0.0                 | 658.7                                         | 112               |                     |                 |                                                                                     |
| 180 min Winter                                                                    | 30.745        | 0.0                 | 746.9                                         | 146               |                     |                 |                                                                                     |
| 240 min Winter                                                                    | 25.190        | 0.0                 | 815.8                                         | 180               |                     |                 |                                                                                     |
| 360 min Winter                                                                    | 18.924        | 0.0                 | 919.4                                         | 242               |                     |                 |                                                                                     |
| 480 min Winter                                                                    | 15.309        | 0.0                 | 991.6                                         | 298               |                     |                 |                                                                                     |
| 600 min Winter                                                                    | 12.911        | 0.0                 | 1045.4                                        | 336               |                     |                 |                                                                                     |
| 720 min Winter                                                                    | 11.192        | 0.0                 | 1087.4                                        | 392               |                     |                 |                                                                                     |
| 960 min Winter                                                                    | 8.868         | 0.0                 | 1148.9                                        | 512               |                     |                 |                                                                                     |
| 1440 min Winter                                                                   | 6.306         | 0.0                 | 1225.5                                        | 752               |                     |                 |                                                                                     |
| 2160 min Winter                                                                   | 4.438         | 0.0                 | 1293.5                                        | 1124              |                     |                 |                                                                                     |
| 2880 min Winter                                                                   | 3.453         | 0.0                 | 1342.1                                        | 1580              |                     |                 |                                                                                     |
| 4320 min Winter                                                                   | 2.428         | 0.0                 | 1415.4                                        | 2300              |                     |                 |                                                                                     |
| 5760 min Winter                                                                   | 1.899         | 0.0                 | 1476.1                                        | 3064              |                     |                 |                                                                                     |
| 7200 min Winter                                                                   | 1.581         | 0.0                 | 1536.3                                        | 3768              |                     |                 |                                                                                     |
| 8640 min Winter                                                                   | 1.367         | 0.0                 | 1594.2                                        | 4416              |                     |                 |                                                                                     |
| 10080 min Winter                                                                  | 1.213         | 0.0                 | 1650.6                                        | 5144              |                     |                 |                                                                                     |
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|                                                                       |                                               |                                                                                     |
|-----------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                |                                               | Page 3                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | BLOCK G & J<br>GEOCELLULAR STORAGE<br>OUTLINE |  |
| Date 13/07/2022 23:21                                                 | Designed by EAS                               |                                                                                     |
| File 20220713-Block G-J - Ge...                                       | Checked by                                    |                                                                                     |
| Innovyze                                                              |                                               | Source Control 2020.1.3                                                             |

Rainfall Details

|                       |                                 |
|-----------------------|---------------------------------|
| Rainfall Model        | FEH                             |
| Return Period (years) | 100                             |
| FEH Rainfall Version  | 2013                            |
| Site Location         | GB 623065 309383 TG 23065 09383 |
| Data Type             | Point                           |
| Summer Storms         | Yes                             |
| Winter Storms         | Yes                             |
| Cv (Summer)           | 0.750                           |
| Cv (Winter)           | 0.840                           |
| Shortest Storm (mins) | 15                              |
| Longest Storm (mins)  | 10080                           |
| Climate Change %      | +45                             |

Time Area Diagram

Total Area (ha) 0.964

| Time (mins) | Area     | Time (mins) | Area     | Time (mins) | Area     | Time (mins) | Area     |
|-------------|----------|-------------|----------|-------------|----------|-------------|----------|
| From:       | To:      | From:       | To:      | From:       | To:      | From:       | To:      |
| 0           | 4 0.096  | 12          | 16 0.096 | 24          | 28 0.097 | 36          | 40 0.097 |
| 4           | 8 0.096  | 16          | 20 0.096 | 28          | 32 0.097 |             |          |
| 8           | 12 0.096 | 20          | 24 0.096 | 32          | 36 0.097 |             |          |

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| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                               | Page 4                                                                              |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------------|------------|-----------|----------------|-----------|------------|----------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-----|-----|-------|-------|-----|--|--|--|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-------|--------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|--|--|-------|---------|-------|---------|-------|---------|--|--|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BLOCK G & J<br>GEOCELLULAR STORAGE<br>OUTLINE |  |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Date 13/07/2022 23:21<br>File 20220713-Block G-J - Ge...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Designed by EAS<br>Checked by                 |                                                                                     |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                               |                                                                                     |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Source Control 2020.1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |                                                                                     |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| <div>Model Details</div> <div>Storage is Online Cover Level (m) 4.050</div> <div>Cellular Storage Structure</div> <div>Invert Level (m) 0.000 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95<br/>Infiltration Coefficient Side (m/hr) 0.00000</div> <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr><tr><td>0.000</td><td>195.8</td><td>0.0</td><td>1.980</td><td>195.8</td><td>0.0</td></tr><tr><td>0.660</td><td>195.8</td><td>0.0</td><td>1.981</td><td>0.0</td><td>0.0</td></tr><tr><td>1.320</td><td>195.8</td><td>0.0</td><td></td><td></td><td></td></tr></table> <div>Pump Outflow Control</div> <div>Invert Level (m) 0.000</div> <table><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr><tr><td>0.200</td><td>8.0000</td><td>1.800</td><td>70.0000</td><td>3.400</td><td>70.0000</td><td>5.000</td><td>70.0000</td></tr><tr><td>0.400</td><td>11.0000</td><td>2.000</td><td>70.0000</td><td>3.600</td><td>70.0000</td><td>5.200</td><td>70.0000</td></tr><tr><td>0.600</td><td>16.0000</td><td>2.200</td><td>70.0000</td><td>3.800</td><td>70.0000</td><td>5.400</td><td>70.0000</td></tr><tr><td>0.800</td><td>20.0000</td><td>2.400</td><td>70.0000</td><td>4.000</td><td>70.0000</td><td>5.600</td><td>70.0000</td></tr><tr><td>1.000</td><td>70.0000</td><td>2.600</td><td>70.0000</td><td>4.200</td><td>70.0000</td><td>5.800</td><td>70.0000</td></tr><tr><td>1.200</td><td>70.0000</td><td>2.800</td><td>70.0000</td><td>4.400</td><td>70.0000</td><td>6.000</td><td>70.0000</td></tr><tr><td>1.400</td><td>70.0000</td><td>3.000</td><td>70.0000</td><td>4.600</td><td>70.0000</td><td></td><td></td></tr><tr><td>1.600</td><td>70.0000</td><td>3.200</td><td>70.0000</td><td>4.800</td><td>70.0000</td><td></td><td></td></tr></table> |                                               |                                                                                     | Depth (m)  | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²)  | Inf. Area (m²) | 0.000 | 195.8 | 0.0 | 1.980 | 195.8 | 0.0 | 0.660 | 195.8 | 0.0 | 1.981 | 0.0 | 0.0 | 1.320 | 195.8 | 0.0 |  |  |  | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | 0.200 | 8.0000 | 1.800 | 70.0000 | 3.400 | 70.0000 | 5.000 | 70.0000 | 0.400 | 11.0000 | 2.000 | 70.0000 | 3.600 | 70.0000 | 5.200 | 70.0000 | 0.600 | 16.0000 | 2.200 | 70.0000 | 3.800 | 70.0000 | 5.400 | 70.0000 | 0.800 | 20.0000 | 2.400 | 70.0000 | 4.000 | 70.0000 | 5.600 | 70.0000 | 1.000 | 70.0000 | 2.600 | 70.0000 | 4.200 | 70.0000 | 5.800 | 70.0000 | 1.200 | 70.0000 | 2.800 | 70.0000 | 4.400 | 70.0000 | 6.000 | 70.0000 | 1.400 | 70.0000 | 3.000 | 70.0000 | 4.600 | 70.0000 |  |  | 1.600 | 70.0000 | 3.200 | 70.0000 | 4.800 | 70.0000 |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Area (m²)                                     | Inf. Area (m²)                                                                      | Depth (m)  | Area (m²) | Inf. Area (m²) |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 195.8                                         | 0.0                                                                                 | 1.980      | 195.8     | 0.0            |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.660                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 195.8                                         | 0.0                                                                                 | 1.981      | 0.0       | 0.0            |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.320                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 195.8                                         | 0.0                                                                                 |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Flow (l/s)                                    | Depth (m)                                                                           | Flow (l/s) | Depth (m) | Flow (l/s)     | Depth (m) | Flow (l/s) |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8.0000                                        | 1.800                                                                               | 70.0000    | 3.400     | 70.0000        | 5.000     | 70.0000    |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 11.0000                                       | 2.000                                                                               | 70.0000    | 3.600     | 70.0000        | 5.200     | 70.0000    |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 16.0000                                       | 2.200                                                                               | 70.0000    | 3.800     | 70.0000        | 5.400     | 70.0000    |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 20.0000                                       | 2.400                                                                               | 70.0000    | 4.000     | 70.0000        | 5.600     | 70.0000    |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 70.0000                                       | 2.600                                                                               | 70.0000    | 4.200     | 70.0000        | 5.800     | 70.0000    |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 70.0000                                       | 2.800                                                                               | 70.0000    | 4.400     | 70.0000        | 6.000     | 70.0000    |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 70.0000                                       | 3.000                                                                               | 70.0000    | 4.600     | 70.0000        |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 70.0000                                       | 3.200                                                                               | 70.0000    | 4.800     | 70.0000        |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| ©1982-2020 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                               |                                                                                     |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |       |       |     |  |  |  |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |

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| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BLOCK H<br>GEOCELLULAR STORAGE<br>OUTLINE |  |                        |                   |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      | 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|       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| Date 13/07/2022 23:05<br>File 20220713-Block H - Geoc...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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  |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| <p>Summary of Results for 100 year Return Period (+45%)</p> <p>Half Drain Time : 61 minutes.</p> <table><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Control (l/s)</th><th>Max Outflow (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr><tr><td>15 min Summer</td><td>1.997</td><td>0.797</td><td>0.0</td><td>19.9</td><td>19.9</td><td>84.8</td><td>O K</td></tr><tr><td>30 min Summer</td><td>2.198</td><td>0.998</td><td>0.0</td><td>24.5</td><td>24.5</td><td>106.2</td><td>O K</td></tr><tr><td>60 min Summer</td><td>2.333</td><td>1.133</td><td>0.0</td><td>24.5</td><td>24.5</td><td>120.5</td><td>O K</td></tr><tr><td>120 min Summer</td><td>2.388</td><td>1.188</td><td>0.0</td><td>24.5</td><td>24.5</td><td>126.4</td><td>O K</td></tr><tr><td>180 min Summer</td><td>2.387</td><td>1.187</td><td>0.0</td><td>24.5</td><td>24.5</td><td>126.3</td><td>O K</td></tr><tr><td>240 min Summer</td><td>2.359</td><td>1.159</td><td>0.0</td><td>24.5</td><td>24.5</td><td>123.3</td><td>O K</td></tr><tr><td>360 min Summer</td><td>2.269</td><td>1.069</td><td>0.0</td><td>24.5</td><td>24.5</td><td>113.8</td><td>O K</td></tr><tr><td>480 min Summer</td><td>2.178</td><td>0.978</td><td>0.0</td><td>24.0</td><td>24.0</td><td>104.1</td><td>O K</td></tr><tr><td>600 min Summer</td><td>2.101</td><td>0.901</td><td>0.0</td><td>22.3</td><td>22.3</td><td>95.9</td><td>O K</td></tr><tr><td>720 min Summer</td><td>2.033</td><td>0.833</td><td>0.0</td><td>20.7</td><td>20.7</td><td>88.7</td><td>O K</td></tr><tr><td>960 min Summer</td><td>1.924</td><td>0.724</td><td>0.0</td><td>18.1</td><td>18.1</td><td>77.0</td><td>O K</td></tr><tr><td>1440 min Summer</td><td>1.772</td><td>0.572</td><td>0.0</td><td>14.3</td><td>14.3</td><td>60.8</td><td>O K</td></tr><tr><td>2160 min Summer</td><td>1.635</td><td>0.435</td><td>0.0</td><td>10.9</td><td>10.9</td><td>46.3</td><td>O K</td></tr><tr><td>2880 min Summer</td><td>1.553</td><td>0.353</td><td>0.0</td><td>8.8</td><td>8.8</td><td>37.6</td><td>O K</td></tr><tr><td>4320 min Summer</td><td>1.460</td><td>0.260</td><td>0.0</td><td>6.5</td><td>6.5</td><td>27.6</td><td>O K</td></tr><tr><td>5760 min Summer</td><td>1.408</td><td>0.208</td><td>0.0</td><td>5.2</td><td>5.2</td><td>22.1</td><td>O K</td></tr><tr><td>7200 min Summer</td><td>1.375</td><td>0.175</td><td>0.0</td><td>4.4</td><td>4.4</td><td>18.6</td><td>O K</td></tr><tr><td>8640 min Summer</td><td>1.353</td><td>0.153</td><td>0.0</td><td>3.8</td><td>3.8</td><td>16.2</td><td>O K</td></tr><tr><td>10080 min Summer</td><td>1.336</td><td>0.136</td><td>0.0</td><td>3.4</td><td>3.4</td><td>14.5</td><td>O K</td></tr><tr><td>15 min Winter</td><td>2.092</td><td>0.892</td><td>0.0</td><td>22.1</td><td>22.1</td><td>94.9</td><td>O K</td></tr></table><br><table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Discharge Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>15 min Summer</td><td>161.698</td><td>0.0</td><td>104.8</td><td>33</td></tr><tr><td>30 min Summer</td><td>106.079</td><td>0.0</td><td>137.6</td><td>42</td></tr><tr><td>60 min Summer</td><td>66.043</td><td>0.0</td><td>171.3</td><td>62</td></tr><tr><td>120 min Summer</td><td>40.674</td><td>0.0</td><td>211.1</td><td>94</td></tr><tr><td>180 min Summer</td><td>30.745</td><td>0.0</td><td>239.4</td><td>128</td></tr><tr><td>240 min Summer</td><td>25.190</td><td>0.0</td><td>261.5</td><td>162</td></tr><tr><td>360 min Summer</td><td>18.924</td><td>0.0</td><td>294.6</td><td>224</td></tr><tr><td>480 min Summer</td><td>15.309</td><td>0.0</td><td>317.8</td><td>286</td></tr><tr><td>600 min Summer</td><td>12.911</td><td>0.0</td><td>335.0</td><td>348</td></tr><tr><td>720 min Summer</td><td>11.192</td><td>0.0</td><td>348.5</td><td>410</td></tr><tr><td>960 min Summer</td><td>8.868</td><td>0.0</td><td>368.2</td><td>532</td></tr><tr><td>1440 min Summer</td><td>6.306</td><td>0.0</td><td>392.7</td><td>774</td></tr><tr><td>2160 min Summer</td><td>4.438</td><td>0.0</td><td>414.5</td><td>1136</td></tr><tr><td>2880 min Summer</td><td>3.453</td><td>0.0</td><td>430.1</td><td>1500</td></tr><tr><td>4320 min Summer</td><td>2.428</td><td>0.0</td><td>453.5</td><td>2216</td></tr><tr><td>5760 min Summer</td><td>1.899</td><td>0.0</td><td>473.0</td><td>2944</td></tr><tr><td>7200 min Summer</td><td>1.581</td><td>0.0</td><td>492.3</td><td>3680</td></tr><tr><td>8640 min Summer</td><td>1.367</td><td>0.0</td><td>510.9</td><td>4408</td></tr><tr><td>10080 min Summer</td><td>1.213</td><td>0.0</td><td>528.9</td><td>5144</td></tr><tr><td>15 min Winter</td><td>161.698</td><td>0.0</td><td>117.4</td><td>33</td></tr></table> |                                           |                                                                                     | Storm Event            | Max Level (m)     | Max Depth (m)     | Max Infiltration (l/s) | Max Control (l/s) | Max Outflow (l/s) | Max Volume (m³) | Status | 15 min Summer | 1.997 | 0.797 | 0.0 | 19.9 | 19.9 | 84.8 | O K | 30 min Summer | 2.198 | 0.998 | 0.0 | 24.5 | 24.5 | 106.2 | O K | 60 min Summer | 2.333 | 1.133 | 0.0 | 24.5 | 24.5 | 120.5 | O K | 120 min Summer | 2.388 | 1.188 | 0.0 | 24.5 | 24.5 | 126.4 | O K | 180 min Summer | 2.387 | 1.187 | 0.0 | 24.5 | 24.5 | 126.3 | O K | 240 min Summer | 2.359 | 1.159 | 0.0 | 24.5 | 24.5 | 123.3 | O K | 360 min Summer | 2.269 | 1.069 | 0.0 | 24.5 | 24.5 | 113.8 | O K | 480 min Summer | 2.178 | 0.978 | 0.0 | 24.0 | 24.0 | 104.1 | O K | 600 min Summer | 2.101 | 0.901 | 0.0 | 22.3 | 22.3 | 95.9 | O K | 720 min Summer | 2.033 | 0.833 | 0.0 | 20.7 | 20.7 | 88.7 | O K | 960 min Summer | 1.924 | 0.724 | 0.0 | 18.1 | 18.1 | 77.0 | O K | 1440 min Summer | 1.772 | 0.572 | 0.0 | 14.3 | 14.3 | 60.8 | O K | 2160 min Summer | 1.635 | 0.435 | 0.0 | 10.9 | 10.9 | 46.3 | O K | 2880 min Summer | 1.553 | 0.353 | 0.0 | 8.8 | 8.8 | 37.6 | O K | 4320 min Summer | 1.460 | 0.260 | 0.0 | 6.5 | 6.5 | 27.6 | O K | 5760 min Summer | 1.408 | 0.208 | 0.0 | 5.2 | 5.2 | 22.1 | O K | 7200 min Summer | 1.375 | 0.175 | 0.0 | 4.4 | 4.4 | 18.6 | O K | 8640 min Summer | 1.353 | 0.153 | 0.0 | 3.8 | 3.8 | 16.2 | O K | 10080 min Summer | 1.336 | 0.136 | 0.0 | 3.4 | 3.4 | 14.5 | O K | 15 min Winter | 2.092 | 0.892 | 0.0 | 22.1 | 22.1 | 94.9 | O K | Storm Event | Rain (mm/hr) | Flooded Volume (m³) | Discharge Volume (m³) | Time-Peak (mins) | 15 min Summer | 161.698 | 0.0 | 104.8 | 33 | 30 min Summer | 106.079 | 0.0 | 137.6 | 42 | 60 min Summer | 66.043 | 0.0 | 171.3 | 62 | 120 min Summer | 40.674 | 0.0 | 211.1 | 94 | 180 min Summer | 30.745 | 0.0 | 239.4 | 128 | 240 min Summer | 25.190 | 0.0 | 261.5 | 162 | 360 min Summer | 18.924 | 0.0 | 294.6 | 224 | 480 min Summer | 15.309 | 0.0 | 317.8 | 286 | 600 min Summer | 12.911 | 0.0 | 335.0 | 348 | 720 min Summer | 11.192 | 0.0 | 348.5 | 410 | 960 min Summer | 8.868 | 0.0 | 368.2 | 532 | 1440 min Summer | 6.306 | 0.0 | 392.7 | 774 | 2160 min Summer | 4.438 | 0.0 | 414.5 | 1136 | 2880 min Summer | 3.453 | 0.0 | 430.1 | 1500 | 4320 min Summer | 2.428 | 0.0 | 453.5 | 2216 | 5760 min Summer | 1.899 | 0.0 | 473.0 | 2944 | 7200 min Summer | 1.581 | 0.0 | 492.3 | 3680 | 8640 min Summer | 1.367 | 0.0 | 510.9 | 4408 | 10080 min Summer | 1.213 | 0.0 | 528.9 | 5144 | 15 min Winter | 161.698 | 0.0 | 117.4 | 33 |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Max Level (m)                             | Max Depth (m)                                                                       | Max Infiltration (l/s) | Max Control (l/s) | Max Outflow (l/s) | Max Volume (m³)        | Status            |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1.997                                     | 0.797                                                                               | 0.0                    | 19.9              | 19.9              | 84.8                   | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.198                                     | 0.998                                                                               | 0.0                    | 24.5              | 24.5              | 106.2                  | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.333                                     | 1.133                                                                               | 0.0                    | 24.5              | 24.5              | 120.5                  | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.388                                     | 1.188                                                                               | 0.0                    | 24.5              | 24.5              | 126.4                  | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.387                                     | 1.187                                                                               | 0.0                    | 24.5              | 24.5              | 126.3                  | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.359                                     | 1.159                                                                               | 0.0                    | 24.5              | 24.5              | 123.3                  | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.269                                     | 1.069                                                                               | 0.0                    | 24.5              | 24.5              | 113.8                  | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.178                                     | 0.978                                                                               | 0.0                    | 24.0              | 24.0              | 104.1                  | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.101                                     | 0.901                                                                               | 0.0                    | 22.3              | 22.3              | 95.9                   | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.033                                     | 0.833                                                                               | 0.0                    | 20.7              | 20.7              | 88.7                   | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1.924                                     | 0.724                                                                               | 0.0                    | 18.1              | 18.1              | 77.0                   | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.772                                     | 0.572                                                                               | 0.0                    | 14.3              | 14.3              | 60.8                   | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.635                                     | 0.435                                                                               | 0.0                    | 10.9              | 10.9              | 46.3                   | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.553                                     | 0.353                                                                               | 0.0                    | 8.8               | 8.8               | 37.6                   | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.460                                     | 0.260                                                                               | 0.0                    | 6.5               | 6.5               | 27.6                   | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.408                                     | 0.208                                                                               | 0.0                    | 5.2               | 5.2               | 22.1                   | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.375                                     | 0.175                                                                               | 0.0                    | 4.4               | 4.4               | 18.6                   | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.353                                     | 0.153                                                                               | 0.0                    | 3.8               | 3.8               | 16.2                   | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.336                                     | 0.136                                                                               | 0.0                    | 3.4               | 3.4               | 14.5                   | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2.092                                     | 0.892                                                                               | 0.0                    | 22.1              | 22.1              | 94.9                   | O K               |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| Storm Event                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Rain (mm/hr)                              | Flooded Volume (m³)                                                                 | Discharge Volume (m³)  | Time-Peak (mins)  |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 15 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 161.698                                   | 0.0                                                                                 | 104.8                  | 33                |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 30 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 106.079                                   | 0.0                                                                                 | 137.6                  | 42                |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 60 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 66.043                                    | 0.0                                                                                 | 171.3                  | 62                |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 120 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 40.674                                    | 0.0                                                                                 | 211.1                  | 94                |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 180 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 30.745                                    | 0.0                                                                                 | 239.4                  | 128               |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 240 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 25.190                                    | 0.0                                                                                 | 261.5                  | 162               |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 360 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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  |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 480 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 15.309                                    | 0.0                                                                                 | 317.8                  | 286               |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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| 600 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 12.911                                    | 0.0                                                                                 | 335.0                  | 348               |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 720 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11.192                                    | 0.0                                                                                 | 348.5                  | 410               |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 960 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8.868                                     | 0.0                                                                                 | 368.2                  | 532               |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 1440 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6.306                                     | 0.0                                                                                 | 392.7                  | 774               |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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    |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 2160 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4.438                                     | 0.0                                                                                 | 414.5                  | 1136              |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 2880 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3.453                                     | 0.0                                                                                 | 430.1                  | 1500              |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 4320 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2.428                                     | 0.0                                                                                 | 453.5                  | 2216              |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 5760 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.899                                     | 0.0                                                                                 | 473.0                  | 2944              |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 7200 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.581                                     | 0.0                                                                                 | 492.3                  | 3680              |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 8640 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1.367                                     | 0.0                                                                                 | 510.9                  | 4408              |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |  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| 10080 min Summer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1.213                                     | 0.0                                                                                 | 528.9                  | 5144              |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |      |                  |       |     |       |      |               |         |     |       |    |
| 15 min Winter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 161.698                                   | 0.0                                                                                 | 117.4                  | 33                |                   |                        |                   |                   |                 |        |               |       |       |     |      |      |      |     |               |       |       |     |      |      |       |     |               |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |       |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |      |      |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |     |     |     |      |     |                 |       |       |  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| ©1982-2020 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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   |     |     |      |     |                 |       |       |     |     |     |      |     |                  |       |       |     |     |     |      |     |               |       |       |     |      |      |      |     |             |              |                     |                       |                  |               |         |     |       |    |               |         |     |       |    |               |        |     |       |    |                |        |     |       |    |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |        |     |       |     |                |       |     |       |     |                 |       |     |       |     |                 |       |     |       |      |                 |       |     |       |      |                 |       |     |       |  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|                                                                       |                              |                                    |                                           |                                  |                                    |                                |                                                                                     |
|-----------------------------------------------------------------------|------------------------------|------------------------------------|-------------------------------------------|----------------------------------|------------------------------------|--------------------------------|-------------------------------------------------------------------------------------|
| EAS Transport Planning                                                |                              |                                    |                                           |                                  |                                    |                                | Page 2                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |                              |                                    | BLOCK H<br>GEOCELLULAR STORAGE<br>OUTLINE |                                  |                                    |                                |  |
| Date 13/07/2022 23:05<br>File 20220713-Block H - Geoc...              |                              |                                    | Designed by EAS<br>Checked by             |                                  |                                    |                                |                                                                                     |
| Innovyze                                                              |                              |                                    | Source Control 2020.1.3                   |                                  |                                    |                                |                                                                                     |
| <u>Summary of Results for 100 year Return Period (+45%)</u>           |                              |                                    |                                           |                                  |                                    |                                |                                                                                     |
| <b>Storm<br/>Event</b>                                                | <b>Max<br/>Level<br/>(m)</b> | <b>Max<br/>Depth<br/>(m)</b>       | <b>Max<br/>Infiltration<br/>(l/s)</b>     | <b>Max<br/>Control<br/>(l/s)</b> | <b>Max<br/>E Outflow<br/>(l/s)</b> | <b>Max<br/>Volume<br/>(m³)</b> | <b>Status</b>                                                                       |
| 30 min Winter                                                         | 2.323                        | 1.123                              | 0.0                                       | 24.5                             | 24.5                               | 119.5                          | O K                                                                                 |
| 60 min Winter                                                         | 2.486                        | 1.286                              | 0.0                                       | 24.5                             | 24.5                               | 136.8                          | O K                                                                                 |
| 120 min Winter                                                        | 3.153                        | 1.953                              | 0.0                                       | 24.5                             | 24.5                               | 141.1                          | O K                                                                                 |
| 180 min Winter                                                        | 2.493                        | 1.293                              | 0.0                                       | 24.5                             | 24.5                               | 137.6                          | O K                                                                                 |
| 240 min Winter                                                        | 2.427                        | 1.227                              | 0.0                                       | 24.5                             | 24.5                               | 130.5                          | O K                                                                                 |
| 360 min Winter                                                        | 2.268                        | 1.068                              | 0.0                                       | 24.5                             | 24.5                               | 113.6                          | O K                                                                                 |
| 480 min Winter                                                        | 2.141                        | 0.941                              | 0.0                                       | 23.2                             | 23.2                               | 100.1                          | O K                                                                                 |
| 600 min Winter                                                        | 2.043                        | 0.843                              | 0.0                                       | 21.0                             | 21.0                               | 89.7                           | O K                                                                                 |
| 720 min Winter                                                        | 1.962                        | 0.762                              | 0.0                                       | 19.1                             | 19.1                               | 81.1                           | O K                                                                                 |
| 960 min Winter                                                        | 1.838                        | 0.638                              | 0.0                                       | 16.0                             | 16.0                               | 67.9                           | O K                                                                                 |
| 1440 min Winter                                                       | 1.679                        | 0.479                              | 0.0                                       | 12.0                             | 12.0                               | 51.0                           | O K                                                                                 |
| 2160 min Winter                                                       | 1.548                        | 0.348                              | 0.0                                       | 8.7                              | 8.7                                | 37.1                           | O K                                                                                 |
| 2880 min Winter                                                       | 1.475                        | 0.275                              | 0.0                                       | 6.9                              | 6.9                                | 29.3                           | O K                                                                                 |
| 4320 min Winter                                                       | 1.396                        | 0.196                              | 0.0                                       | 4.9                              | 4.9                                | 20.8                           | O K                                                                                 |
| 5760 min Winter                                                       | 1.354                        | 0.154                              | 0.0                                       | 3.9                              | 3.9                                | 16.4                           | O K                                                                                 |
| 7200 min Winter                                                       | 1.329                        | 0.129                              | 0.0                                       | 3.2                              | 3.2                                | 13.7                           | O K                                                                                 |
| 8640 min Winter                                                       | 1.311                        | 0.111                              | 0.0                                       | 2.8                              | 2.8                                | 11.9                           | O K                                                                                 |
| 10080 min Winter                                                      | 1.299                        | 0.099                              | 0.0                                       | 2.5                              | 2.5                                | 10.5                           | O K                                                                                 |
| <b>Storm<br/>Event</b>                                                | <b>Rain<br/>(mm/hr)</b>      | <b>Flooded<br/>Volume<br/>(m³)</b> | <b>Discharge<br/>Volume<br/>(m³)</b>      | <b>Time-Peak<br/>(mins)</b>      |                                    |                                |                                                                                     |
| 30 min Winter                                                         | 106.079                      | 0.0                                | 154.1                                     | 43                               |                                    |                                |                                                                                     |
| 60 min Winter                                                         | 66.043                       | 0.0                                | 191.9                                     | 64                               |                                    |                                |                                                                                     |
| 120 min Winter                                                        | 40.674                       | 0.0                                | 236.4                                     | 102                              |                                    |                                |                                                                                     |
| 180 min Winter                                                        | 30.745                       | 0.0                                | 268.1                                     | 138                              |                                    |                                |                                                                                     |
| 240 min Winter                                                        | 25.190                       | 0.0                                | 292.9                                     | 172                              |                                    |                                |                                                                                     |
| 360 min Winter                                                        | 18.924                       | 0.0                                | 330.0                                     | 236                              |                                    |                                |                                                                                     |
| 480 min Winter                                                        | 15.309                       | 0.0                                | 355.9                                     | 298                              |                                    |                                |                                                                                     |
| 600 min Winter                                                        | 12.911                       | 0.0                                | 375.2                                     | 360                              |                                    |                                |                                                                                     |
| 720 min Winter                                                        | 11.192                       | 0.0                                | 390.3                                     | 422                              |                                    |                                |                                                                                     |
| 960 min Winter                                                        | 8.868                        | 0.0                                | 412.3                                     | 546                              |                                    |                                |                                                                                     |
| 1440 min Winter                                                       | 6.306                        | 0.0                                | 439.8                                     | 790                              |                                    |                                |                                                                                     |
| 2160 min Winter                                                       | 4.438                        | 0.0                                | 464.3                                     | 1152                             |                                    |                                |                                                                                     |
| 2880 min Winter                                                       | 3.453                        | 0.0                                | 481.7                                     | 1512                             |                                    |                                |                                                                                     |
| 4320 min Winter                                                       | 2.428                        | 0.0                                | 508.0                                     | 2228                             |                                    |                                |                                                                                     |
| 5760 min Winter                                                       | 1.899                        | 0.0                                | 529.8                                     | 2944                             |                                    |                                |                                                                                     |
| 7200 min Winter                                                       | 1.581                        | 0.0                                | 551.4                                     | 3680                             |                                    |                                |                                                                                     |
| 8640 min Winter                                                       | 1.367                        | 0.0                                | 572.2                                     | 4416                             |                                    |                                |                                                                                     |
| 10080 min Winter                                                      | 1.213                        | 0.0                                | 592.4                                     | 5144                             |                                    |                                |                                                                                     |
| ©1982-2020 Innovyze                                                   |                              |                                    |                                           |                                  |                                    |                                |                                                                                     |

| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                           | Page 3                                                                              |             |             |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------|-------------|-------------|-------------|------|-------------|------|-----------|------|-----------|------|-----------|------|-----|-------|------|-------|-------|-------|-----|-------|-------|-------|-------|-------|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BLOCK H<br>GEOCELLULAR STORAGE<br>OUTLINE |  |             |             |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| Date 13/07/2022 23:05<br>File 20220713-Block H - Geoc...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Designed by EAS<br>Checked by             |                                                                                     |             |             |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Source Control 2020.1.3                   |                                                                                     |             |             |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| <div>Rainfall Details</div> <div><div>Rainfall ModelFEH</div><div>Return Period (years)100</div><div>FEH Rainfall Version2013</div><div>Site Location GB 623065 309383 TG 23065 09383</div><div>Data TypePoint</div><div>Summer StormsYes</div><div>Winter StormsYes</div><div>Cv (Summer)0.750</div><div>Cv (Winter)0.840</div><div>Shortest Storm (mins)15</div><div>Longest Storm (mins)10080</div><div>Climate Change % +45</div></div> <div>Time Area Diagram</div> <div>Total Area (ha) 0.346</div> <table><thead><tr><th>Time (mins)</th><th>Area</th><th>Time (mins)</th><th>Area</th><th>Time (mins)</th><th>Area</th></tr><tr><th>From: To:</th><th>(ha)</th><th>From: To:</th><th>(ha)</th><th>From: To:</th><th>(ha)</th></tr></thead><tbody><tr><td>0 4</td><td>0.058</td><td>8 12</td><td>0.058</td><td>16 20</td><td>0.057</td></tr><tr><td>4 8</td><td>0.058</td><td>12 16</td><td>0.058</td><td>20 24</td><td>0.057</td></tr></tbody></table> |                                           |                                                                                     | Time (mins) | Area        | Time (mins) | Area | Time (mins) | Area | From: To: | (ha) | From: To: | (ha) | From: To: | (ha) | 0 4 | 0.058 | 8 12 | 0.058 | 16 20 | 0.057 | 4 8 | 0.058 | 12 16 | 0.058 | 20 24 | 0.057 |
| Time (mins)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Area                                      | Time (mins)                                                                         | Area        | Time (mins) | Area        |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| From: To:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | (ha)                                      | From: To:                                                                           | (ha)        | From: To:   | (ha)        |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| 0 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.058                                     | 8 12                                                                                | 0.058       | 16 20       | 0.057       |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| 4 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.058                                     | 12 16                                                                               | 0.058       | 20 24       | 0.057       |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |
| ©1982-2020 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                           |                                                                                     |             |             |             |      |             |      |           |      |           |      |           |      |     |       |      |       |       |       |     |       |       |       |       |       |

| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                           | Page 4                                                                              |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------|------------|-----------|----------------|-----------|------------|----------------|-------|-------|-----|-------|-------|-----|-------|-------|-----|-------|-----|-----|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-------|--------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|--|--|-------|---------|-------|---------|-------|---------|--|--|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | BLOCK H<br>GEOCELLULAR STORAGE<br>OUTLINE |  |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Date 13/07/2022 23:05<br>File 20220713-Block H - Geoc...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Designed by EAS<br>Checked by             |                                                                                     |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                           |                                                                                     |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Source Control 2020.1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                           |                                                                                     |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| <div>Model Details</div> <div>Storage is Online Cover Level (m) 4.500</div> <div>Cellular Storage Structure</div> <div>Invert Level (m) 1.200 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95<br/>Infiltration Coefficient Side (m/hr) 0.00000</div> <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr><tr><td>0.000</td><td>112.0</td><td>0.0</td><td>1.320</td><td>112.0</td><td>0.0</td></tr><tr><td>0.660</td><td>112.0</td><td>0.0</td><td>1.321</td><td>0.0</td><td>0.0</td></tr></table> <div>Pump Outflow Control</div> <div>Invert Level (m) 1.200</div> <table><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr><tr><td>0.200</td><td>5.0000</td><td>1.800</td><td>24.5000</td><td>3.400</td><td>24.5000</td><td>5.000</td><td>24.5000</td></tr><tr><td>0.400</td><td>10.0000</td><td>2.000</td><td>24.5000</td><td>3.600</td><td>24.5000</td><td>5.200</td><td>24.5000</td></tr><tr><td>0.600</td><td>15.0000</td><td>2.200</td><td>24.5000</td><td>3.800</td><td>24.5000</td><td>5.400</td><td>24.5000</td></tr><tr><td>0.800</td><td>20.0000</td><td>2.400</td><td>24.5000</td><td>4.000</td><td>24.5000</td><td>5.600</td><td>24.5000</td></tr><tr><td>1.000</td><td>24.5000</td><td>2.600</td><td>24.5000</td><td>4.200</td><td>24.5000</td><td>5.800</td><td>24.5000</td></tr><tr><td>1.200</td><td>24.5000</td><td>2.800</td><td>24.5000</td><td>4.400</td><td>24.5000</td><td>6.000</td><td>24.5000</td></tr><tr><td>1.400</td><td>24.5000</td><td>3.000</td><td>24.5000</td><td>4.600</td><td>24.5000</td><td></td><td></td></tr><tr><td>1.600</td><td>24.5000</td><td>3.200</td><td>24.5000</td><td>4.800</td><td>24.5000</td><td></td><td></td></tr></table> |                                           |                                                                                     | Depth (m)  | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²)  | Inf. Area (m²) | 0.000 | 112.0 | 0.0 | 1.320 | 112.0 | 0.0 | 0.660 | 112.0 | 0.0 | 1.321 | 0.0 | 0.0 | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | 0.200 | 5.0000 | 1.800 | 24.5000 | 3.400 | 24.5000 | 5.000 | 24.5000 | 0.400 | 10.0000 | 2.000 | 24.5000 | 3.600 | 24.5000 | 5.200 | 24.5000 | 0.600 | 15.0000 | 2.200 | 24.5000 | 3.800 | 24.5000 | 5.400 | 24.5000 | 0.800 | 20.0000 | 2.400 | 24.5000 | 4.000 | 24.5000 | 5.600 | 24.5000 | 1.000 | 24.5000 | 2.600 | 24.5000 | 4.200 | 24.5000 | 5.800 | 24.5000 | 1.200 | 24.5000 | 2.800 | 24.5000 | 4.400 | 24.5000 | 6.000 | 24.5000 | 1.400 | 24.5000 | 3.000 | 24.5000 | 4.600 | 24.5000 |  |  | 1.600 | 24.5000 | 3.200 | 24.5000 | 4.800 | 24.5000 |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Area (m²)                                 | Inf. Area (m²)                                                                      | Depth (m)  | Area (m²) | Inf. Area (m²) |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 112.0                                     | 0.0                                                                                 | 1.320      | 112.0     | 0.0            |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.660                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 112.0                                     | 0.0                                                                                 | 1.321      | 0.0       | 0.0            |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Flow (l/s)                                | Depth (m)                                                                           | Flow (l/s) | Depth (m) | Flow (l/s)     | Depth (m) | Flow (l/s) |                |       |       |     |       |       |     |       |       |     |       |     |     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5.0000                                    | 1.800                                                                               | 24.5000    | 3.400     | 24.5000        | 5.000     | 24.5000    |                |       |       |     |       |       |     |       |       |     |       |     |     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10.0000                                   | 2.000                                                                               | 24.5000    | 3.600     | 24.5000        | 5.200     | 24.5000    |                |       |       |     |       |       |     |       |       |     |       |     |     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15.0000                                   | 2.200                                                                               | 24.5000    | 3.800     | 24.5000        | 5.400     | 24.5000    |                |       |       |     |       |       |     |       |       |     |       |     |     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 0.800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 20.0000                                   | 2.400                                                                               | 24.5000    | 4.000     | 24.5000        | 5.600     | 24.5000    |                |       |       |     |       |       |     |       |       |     |       |     |     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24.5000                                   | 2.600                                                                               | 24.5000    | 4.200     | 24.5000        | 5.800     | 24.5000    |                |       |       |     |       |       |     |       |       |     |       |     |     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24.5000                                   | 2.800                                                                               | 24.5000    | 4.400     | 24.5000        | 6.000     | 24.5000    |                |       |       |     |       |       |     |       |       |     |       |     |     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24.5000                                   | 3.000                                                                               | 24.5000    | 4.600     | 24.5000        |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| 1.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24.5000                                   | 3.200                                                                               | 24.5000    | 4.800     | 24.5000        |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |
| ©1982-2020 Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                           |                                                                                     |            |           |                |           |            |                |       |       |     |       |       |     |       |       |     |       |     |     |           |            |           |            |           |            |           |            |       |        |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |       |         |  |  |       |         |       |         |       |         |  |  |

|                                                                       |                                       |                                                                                     |
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| EAS Transport Planning                                                |                                       | Page 1                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | BOTOLPH STREET<br>SW DRAINAGE NETWORK |  |
| Date 14/07/2022 00:42<br>File 20220713-Boltolph Stree...              | Designed by EAS<br>Checked by         |                                                                                     |
| Innovyze                                                              | Network 2020.1.3                      |                                                                                     |

| MH Name          | B.ST 03 | B.ST 02        | B.ST 01 |  |
|------------------|---------|----------------|---------|--|
| Hor Scale 1000   |         |                |         |  |
| Ver Scale 200    |         |                |         |  |
| Datum (m)-1.000  |         |                |         |  |
| PN               |         | 1.001          | 1.000   |  |
| Dia (mm)         |         | 525            | 525     |  |
| Slope (1:X)      |         | 400.0          | 398.0   |  |
| Cover Level (m)  | 4.500   | 4.500          | 4.500   |  |
| Invert Level (m) | 2.276   | 2.365<br>2.365 | 2.464   |  |
| Length (m)       |         | 35.600         | 39.400  |  |

| MH Name          |  |                | B.ST 06        | B.ST 05        | B.ST 04        | B.ST 03 |  |
|------------------|--|----------------|----------------|----------------|----------------|---------|--|
| Hor Scale 1000   |  |                |                |                |                |         |  |
| Ver Scale 200    |  |                |                |                |                |         |  |
| Datum (m)-1.000  |  |                |                |                |                |         |  |
| PN               |  |                | 1.005          | 1.004          | 1.003          | 1.002   |  |
| Dia (mm)         |  |                | 525            | 525            | 525            | 525     |  |
| Slope (1:X)      |  |                | 400.0          | 403.8          | 400.0          | 400.0   |  |
| Cover Level (m)  |  | 4.500<br>4.500 | 4.500          | 4.500          | 4.500          | 4.500   |  |
| Invert Level (m) |  | 2.100<br>2.100 | 2.147<br>2.147 | 2.199<br>2.199 | 2.238<br>2.238 | 2.276   |  |
| Length (m)       |  |                | 18.800         | 21.000         | 15.600         | 15.200  |  |

|                                                                       |                                       |                                                                                     |
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| EAS Transport Planning                                                |                                       | Page 1                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | BOTOLPH STREET<br>SW DRAINAGE NETWORK |  |
| Date 14/07/2022 00:41<br>File 20220713-Boltolph Stree...              | Designed by EAS<br>Checked by         |                                                                                     |
| Innovyze                                                              | Network 2020.1.3                      |                                                                                     |

### Existing Network Details for Storm

\* - Indicates pipe has been modified outside of System 1

| PN      | Length<br>(m) | Fall<br>(m) | Slope<br>(1:X) | I.Area<br>(ha) | T.E.<br>(mins) | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) | Section Type |
|---------|---------------|-------------|----------------|----------------|----------------|-----------|-------------|-------------|--------------|
| * 1.000 | 39.400        | 0.099       | 398.0          | 0.028          | 3.00           | 0.600     | o           | 525         | Pipe/Conduit |
| * 1.001 | 35.600        | 0.089       | 400.0          | 0.027          | 0.00           | 0.600     | o           | 525         | Pipe/Conduit |
| * 1.002 | 15.200        | 0.038       | 400.0          | 0.027          | 0.00           | 0.600     | o           | 525         | Pipe/Conduit |
| * 1.003 | 15.600        | 0.039       | 400.0          | 0.027          | 0.00           | 0.600     | o           | 525         | Pipe/Conduit |
| * 1.004 | 21.000        | 0.052       | 403.8          | 0.027          | 0.00           | 0.600     | o           | 525         | Pipe/Conduit |
| * 1.005 | 18.800        | 0.047       | 400.0          | 0.027          | 0.00           | 0.600     | o           | 525         | Pipe/Conduit |
| * 1.006 | 4.000         | 0.378       | 10.6           | 0.000          | 0.00           | 0.600     | o           | 150         | Pipe/Conduit |

| PN      | US/MH<br>Name | US/CL<br>(m) | US/IL<br>(m) | US<br>C.Depth<br>(m) | DS/CL<br>(m) | DS/IL<br>(m) | DS<br>C.Depth<br>(m) | Ctrl         | US/MH<br>(mm) |
|---------|---------------|--------------|--------------|----------------------|--------------|--------------|----------------------|--------------|---------------|
| * 1.000 | B.ST 01       | 4.500        | 2.464        | 1.511                | 4.500        | 2.365        | 1.610                |              | 1800          |
| * 1.001 | B.ST 02       | 4.500        | 2.365        | 1.610                | 4.500        | 2.276        | 1.699                |              | 1800          |
| * 1.002 | B.ST 03       | 4.500        | 2.276        | 1.699                | 4.500        | 2.238        | 1.737                |              | 1800          |
| * 1.003 | B.ST 04       | 4.500        | 2.238        | 1.737                | 4.500        | 2.199        | 1.776                |              | 1800          |
| * 1.004 | B.ST 05       | 4.500        | 2.199        | 1.776                | 4.500        | 2.147        | 1.828                |              | 1800          |
| * 1.005 | B.ST 06       | 4.500        | 2.147        | 1.828                | 4.500        | 2.100        | 1.875                |              | 1800          |
| * 1.006 | B.SY HYDRO    | 4.500        | 2.100        | 2.250                | 4.500        | 1.722        | 2.628                | Hydro-Brake® | 1800          |

|                                                                       |                                       |                                                                                     |
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| EAS Transport Planning                                                |                                       | Page 2                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | BOTOLPH STREET<br>SW DRAINAGE NETWORK |  |
| Date 14/07/2022 00:41<br>File 20220713-Boltolph Stree...              | Designed by EAS<br>Checked by         |                                                                                     |
| Innovyze                                                              | Network 2020.1.3                      |                                                                                     |

Manhole Schedules for Storm

| MH Name    | MH CL (m) | MH Depth (m) | MH Connection | MH Diam., L*W (mm) | PN    | Pipe Out Invert Level (m) | Diameter (mm) | PN    | Pipes In Invert Level (m) | Diameter (mm) | Backdr (mm) |
|------------|-----------|--------------|---------------|--------------------|-------|---------------------------|---------------|-------|---------------------------|---------------|-------------|
| B.ST 01    | 4.500     | 2.036        | Open Manhole  | 1800               | 1.000 | 2.464                     | 525           |       |                           |               |             |
| B.ST 02    | 4.500     | 2.135        | Open Manhole  | 1800               | 1.001 | 2.365                     | 525           | 1.000 | 2.365                     | 525           |             |
| B.ST 03    | 4.500     | 2.224        | Open Manhole  | 1800               | 1.002 | 2.276                     | 525           | 1.001 | 2.276                     | 525           |             |
| B.ST 04    | 4.500     | 2.262        | Open Manhole  | 1800               | 1.003 | 2.238                     | 525           | 1.002 | 2.238                     | 525           |             |
| B.ST 05    | 4.500     | 2.301        | Open Manhole  | 1800               | 1.004 | 2.199                     | 525           | 1.003 | 2.199                     | 525           |             |
| B.ST 06    | 4.500     | 2.353        | Open Manhole  | 1800               | 1.005 | 2.147                     | 525           | 1.004 | 2.147                     | 525           |             |
| B.SY HYDRO | 4.500     | 2.400        | Open Manhole  | 1800               | 1.006 | 2.100                     | 150           | 1.005 | 2.100                     | 525           |             |
|            | 4.500     | 2.778        | Open Manhole  | 0                  |       | OUTFALL                   |               | 1.006 | 1.722                     | 150           |             |

No coordinates have been specified, layout information cannot be produced.

|                                                                       |                                       |                                                                                     |
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| EAS Transport Planning                                                |                                       | Page 3                                                                              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG | BOTOLPH STREET<br>SW DRAINAGE NETWORK |  |
| Date 14/07/2022 00:41<br>File 20220713-Boltolph Stree...              | Designed by EAS<br>Checked by         |                                                                                     |
| Innovyze                                                              | Network 2020.1.3                      |                                                                                     |

### PIPELINE SCHEDULES for Storm

#### Upstream Manhole

| PN    | Hyd<br>Sect | Diam<br>(mm) | MH<br>Name | C.Level<br>(m) | I.Level<br>(m) | D.Depth<br>(m) | MH<br>Connection | MH DIAM., L*W<br>(mm) |
|-------|-------------|--------------|------------|----------------|----------------|----------------|------------------|-----------------------|
| 1.000 | o           | 525          | B.ST 01    | 4.500          | 2.464          | 1.511          | Open Manhole     | 1800                  |
| 1.001 | o           | 525          | B.ST 02    | 4.500          | 2.365          | 1.610          | Open Manhole     | 1800                  |
| 1.002 | o           | 525          | B.ST 03    | 4.500          | 2.276          | 1.699          | Open Manhole     | 1800                  |
| 1.003 | o           | 525          | B.ST 04    | 4.500          | 2.238          | 1.737          | Open Manhole     | 1800                  |
| 1.004 | o           | 525          | B.ST 05    | 4.500          | 2.199          | 1.776          | Open Manhole     | 1800                  |
| 1.005 | o           | 525          | B.ST 06    | 4.500          | 2.147          | 1.828          | Open Manhole     | 1800                  |
| 1.006 | o           | 150          | B.SY HYDRO | 4.500          | 2.100          | 2.250          | Open Manhole     | 1800                  |

#### Downstream Manhole

| PN    | Length<br>(m) | Slope<br>(1:X) | MH<br>Name | C.Level<br>(m) | I.Level<br>(m) | D.Depth<br>(m) | MH<br>Connection | MH DIAM., L*W<br>(mm) |
|-------|---------------|----------------|------------|----------------|----------------|----------------|------------------|-----------------------|
| 1.000 | 39.400        | 398.0          | B.ST 02    | 4.500          | 2.365          | 1.610          | Open Manhole     | 1800                  |
| 1.001 | 35.600        | 400.0          | B.ST 03    | 4.500          | 2.276          | 1.699          | Open Manhole     | 1800                  |
| 1.002 | 15.200        | 400.0          | B.ST 04    | 4.500          | 2.238          | 1.737          | Open Manhole     | 1800                  |
| 1.003 | 15.600        | 400.0          | B.ST 05    | 4.500          | 2.199          | 1.776          | Open Manhole     | 1800                  |
| 1.004 | 21.000        | 403.8          | B.ST 06    | 4.500          | 2.147          | 1.828          | Open Manhole     | 1800                  |
| 1.005 | 18.800        | 400.0          | B.SY HYDRO | 4.500          | 2.100          | 1.875          | Open Manhole     | 1800                  |
| 1.006 | 4.000         | 10.6           |            | 4.500          | 1.722          | 2.628          | Open Manhole     | 0                     |

#### Surcharged Outfall Details for Storm

| Outfall<br>Pipe Number | Outfall<br>Name | C. Level<br>(m) | I. Level<br>(m) | Min<br>I. Level<br>(m) | D,L<br>(mm) | W<br>(mm) |
|------------------------|-----------------|-----------------|-----------------|------------------------|-------------|-----------|
|------------------------|-----------------|-----------------|-----------------|------------------------|-------------|-----------|

|       |  |       |       |       |   |   |
|-------|--|-------|-------|-------|---|---|
| 1.006 |  | 4.500 | 1.722 | 0.000 | 0 | 0 |
|-------|--|-------|-------|-------|---|---|

Datum (m) 1.197 Offset (mins) 0

| Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) |
|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|
| 1              | 0.675        | 13             | 0.675        | 25             | 0.675        | 37             | 0.675        | 49             | 0.675        | 61             | 0.675        |
| 2              | 0.675        | 14             | 0.675        | 26             | 0.675        | 38             | 0.675        | 50             | 0.675        | 62             | 0.675        |
| 3              | 0.675        | 15             | 0.675        | 27             | 0.675        | 39             | 0.675        | 51             | 0.675        | 63             | 0.675        |
| 4              | 0.675        | 16             | 0.675        | 28             | 0.675        | 40             | 0.675        | 52             | 0.675        | 64             | 0.675        |
| 5              | 0.675        | 17             | 0.675        | 29             | 0.675        | 41             | 0.675        | 53             | 0.675        | 65             | 0.675        |
| 6              | 0.675        | 18             | 0.675        | 30             | 0.675        | 42             | 0.675        | 54             | 0.675        | 66             | 0.675        |
| 7              | 0.675        | 19             | 0.675        | 31             | 0.675        | 43             | 0.675        | 55             | 0.675        | 67             | 0.675        |
| 8              | 0.675        | 20             | 0.675        | 32             | 0.675        | 44             | 0.675        | 56             | 0.675        | 68             | 0.675        |
| 9              | 0.675        | 21             | 0.675        | 33             | 0.675        | 45             | 0.675        | 57             | 0.675        | 69             | 0.675        |
| 10             | 0.675        | 22             | 0.675        | 34             | 0.675        | 46             | 0.675        | 58             | 0.675        | 70             | 0.675        |
| 11             | 0.675        | 23             | 0.675        | 35             | 0.675        | 47             | 0.675        | 59             | 0.675        | 71             | 0.675        |
| 12             | 0.675        | 24             | 0.675        | 36             | 0.675        | 48             | 0.675        | 60             | 0.675        | 72             | 0.675        |

|                                                                       |              |                |              |                                       |              |                |              |                |              |                                                                                     |              |
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| EAS Transport Planning                                                |              |                |              |                                       |              |                |              |                |              | Page 4                                                                              |              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |              |                |              | BOTOLPH STREET<br>SW DRAINAGE NETWORK |              |                |              |                |              |  |              |
| Date 14/07/2022 00:41<br>File 20220713-Boltolph Stree...              |              |                |              | Designed by EAS<br>Checked by         |              |                |              |                |              |                                                                                     |              |
| Innovyze                                                              |              |                |              | Network 2020.1.3                      |              |                |              |                |              |                                                                                     |              |
| Surcharged Outfall Details for Storm                                  |              |                |              |                                       |              |                |              |                |              |                                                                                     |              |
| Time<br>(mins)                                                        | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                        | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) |
| 73                                                                    | 0.675        | 123            | 0.675        | 173                                   | 0.675        | 223            | 0.675        | 273            | 0.675        | 323                                                                                 | 0.675        |
| 74                                                                    | 0.675        | 124            | 0.675        | 174                                   | 0.675        | 224            | 0.675        | 274            | 0.675        | 324                                                                                 | 0.675        |
| 75                                                                    | 0.675        | 125            | 0.675        | 175                                   | 0.675        | 225            | 0.675        | 275            | 0.675        | 325                                                                                 | 0.675        |
| 76                                                                    | 0.675        | 126            | 0.675        | 176                                   | 0.675        | 226            | 0.675        | 276            | 0.675        | 326                                                                                 | 0.675        |
| 77                                                                    | 0.675        | 127            | 0.675        | 177                                   | 0.675        | 227            | 0.675        | 277            | 0.675        | 327                                                                                 | 0.675        |
| 78                                                                    | 0.675        | 128            | 0.675        | 178                                   | 0.675        | 228            | 0.675        | 278            | 0.675        | 328                                                                                 | 0.675        |
| 79                                                                    | 0.675        | 129            | 0.675        | 179                                   | 0.675        | 229            | 0.675        | 279            | 0.675        | 329                                                                                 | 0.675        |
| 80                                                                    | 0.675        | 130            | 0.675        | 180                                   | 0.675        | 230            | 0.675        | 280            | 0.675        | 330                                                                                 | 0.675        |
| 81                                                                    | 0.675        | 131            | 0.675        | 181                                   | 0.675        | 231            | 0.675        | 281            | 0.675        | 331                                                                                 | 0.675        |
| 82                                                                    | 0.675        | 132            | 0.675        | 182                                   | 0.675        | 232            | 0.675        | 282            | 0.675        | 332                                                                                 | 0.675        |
| 83                                                                    | 0.675        | 133            | 0.675        | 183                                   | 0.675        | 233            | 0.675        | 283            | 0.675        | 333                                                                                 | 0.675        |
| 84                                                                    | 0.675        | 134            | 0.675        | 184                                   | 0.675        | 234            | 0.675        | 284            | 0.675        | 334                                                                                 | 0.675        |
| 85                                                                    | 0.675        | 135            | 0.675        | 185                                   | 0.675        | 235            | 0.675        | 285            | 0.675        | 335                                                                                 | 0.675        |
| 86                                                                    | 0.675        | 136            | 0.675        | 186                                   | 0.675        | 236            | 0.675        | 286            | 0.675        | 336                                                                                 | 0.675        |
| 87                                                                    | 0.675        | 137            | 0.675        | 187                                   | 0.675        | 237            | 0.675        | 287            | 0.675        | 337                                                                                 | 0.675        |
| 88                                                                    | 0.675        | 138            | 0.675        | 188                                   | 0.675        | 238            | 0.675        | 288            | 0.675        | 338                                                                                 | 0.675        |
| 89                                                                    | 0.675        | 139            | 0.675        | 189                                   | 0.675        | 239            | 0.675        | 289            | 0.675        | 339                                                                                 | 0.675        |
| 90                                                                    | 0.675        | 140            | 0.675        | 190                                   | 0.675        | 240            | 0.675        | 290            | 0.675        | 340                                                                                 | 0.675        |
| 91                                                                    | 0.675        | 141            | 0.675        | 191                                   | 0.675        | 241            | 0.675        | 291            | 0.675        | 341                                                                                 | 0.675        |
| 92                                                                    | 0.675        | 142            | 0.675        | 192                                   | 0.675        | 242            | 0.675        | 292            | 0.675        | 342                                                                                 | 0.675        |
| 93                                                                    | 0.675        | 143            | 0.675        | 193                                   | 0.675        | 243            | 0.675        | 293            | 0.675        | 343                                                                                 | 0.675        |
| 94                                                                    | 0.675        | 144            | 0.675        | 194                                   | 0.675        | 244            | 0.675        | 294            | 0.675        | 344                                                                                 | 0.675        |
| 95                                                                    | 0.675        | 145            | 0.675        | 195                                   | 0.675        | 245            | 0.675        | 295            | 0.675        | 345                                                                                 | 0.675        |
| 96                                                                    | 0.675        | 146            | 0.675        | 196                                   | 0.675        | 246            | 0.675        | 296            | 0.675        | 346                                                                                 | 0.675        |
| 97                                                                    | 0.675        | 147            | 0.675        | 197                                   | 0.675        | 247            | 0.675        | 297            | 0.675        | 347                                                                                 | 0.675        |
| 98                                                                    | 0.675        | 148            | 0.675        | 198                                   | 0.675        | 248            | 0.675        | 298            | 0.675        | 348                                                                                 | 0.675        |
| 99                                                                    | 0.675        | 149            | 0.675        | 199                                   | 0.675        | 249            | 0.675        | 299            | 0.675        | 349                                                                                 | 0.675        |
| 100                                                                   | 0.675        | 150            | 0.675        | 200                                   | 0.675        | 250            | 0.675        | 300            | 0.675        | 350                                                                                 | 0.675        |
| 101                                                                   | 0.675        | 151            | 0.675        | 201                                   | 0.675        | 251            | 0.675        | 301            | 0.675        | 351                                                                                 | 0.675        |
| 102                                                                   | 0.675        | 152            | 0.675        | 202                                   | 0.675        | 252            | 0.675        | 302            | 0.675        | 352                                                                                 | 0.675        |
| 103                                                                   | 0.675        | 153            | 0.675        | 203                                   | 0.675        | 253            | 0.675        | 303            | 0.675        | 353                                                                                 | 0.675        |
| 104                                                                   | 0.675        | 154            | 0.675        | 204                                   | 0.675        | 254            | 0.675        | 304            | 0.675        | 354                                                                                 | 0.675        |
| 105                                                                   | 0.675        | 155            | 0.675        | 205                                   | 0.675        | 255            | 0.675        | 305            | 0.675        | 355                                                                                 | 0.675        |
| 106                                                                   | 0.675        | 156            | 0.675        | 206                                   | 0.675        | 256            | 0.675        | 306            | 0.675        | 356                                                                                 | 0.675        |
| 107                                                                   | 0.675        | 157            | 0.675        | 207                                   | 0.675        | 257            | 0.675        | 307            | 0.675        | 357                                                                                 | 0.675        |
| 108                                                                   | 0.675        | 158            | 0.675        | 208                                   | 0.675        | 258            | 0.675        | 308            | 0.675        | 358                                                                                 | 0.675        |
| 109                                                                   | 0.675        | 159            | 0.675        | 209                                   | 0.675        | 259            | 0.675        | 309            | 0.675        | 359                                                                                 | 0.675        |
| 110                                                                   | 0.675        | 160            | 0.675        | 210                                   | 0.675        | 260            | 0.675        | 310            | 0.675        | 360                                                                                 | 0.675        |
| 111                                                                   | 0.675        | 161            | 0.675        | 211                                   | 0.675        | 261            | 0.675        | 311            | 0.675        | 361                                                                                 | 0.675        |
| 112                                                                   | 0.675        | 162            | 0.675        | 212                                   | 0.675        | 262            | 0.675        | 312            | 0.675        | 362                                                                                 | 0.675        |
| 113                                                                   | 0.675        | 163            | 0.675        | 213                                   | 0.675        | 263            | 0.675        | 313            | 0.675        | 363                                                                                 | 0.675        |
| 114                                                                   | 0.675        | 164            | 0.675        | 214                                   | 0.675        | 264            | 0.675        | 314            | 0.675        | 364                                                                                 | 0.675        |
| 115                                                                   | 0.675        | 165            | 0.675        | 215                                   | 0.675        | 265            | 0.675        | 315            | 0.675        | 365                                                                                 | 0.675        |
| 116                                                                   | 0.675        | 166            | 0.675        | 216                                   | 0.675        | 266            | 0.675        | 316            | 0.675        | 366                                                                                 | 0.675        |
| 117                                                                   | 0.675        | 167            | 0.675        | 217                                   | 0.675        | 267            | 0.675        | 317            | 0.675        | 367                                                                                 | 0.675        |
| 118                                                                   | 0.675        | 168            | 0.675        | 218                                   | 0.675        | 268            | 0.675        | 318            | 0.675        | 368                                                                                 | 0.675        |
| 119                                                                   | 0.675        | 169            | 0.675        | 219                                   | 0.675        | 269            | 0.675        | 319            | 0.675        | 369                                                                                 | 0.675        |
| 120                                                                   | 0.675        | 170            | 0.675        | 220                                   | 0.675        | 270            | 0.675        | 320            | 0.675        | 370                                                                                 | 0.675        |
| 121                                                                   | 0.675        | 171            | 0.675        | 221                                   | 0.675        | 271            | 0.675        | 321            | 0.675        | 371                                                                                 | 0.675        |
| 122                                                                   | 0.675        | 172            | 0.675        | 222                                   | 0.675        | 272            | 0.675        | 322            | 0.675        | 372                                                                                 | 0.675        |
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|                                                                       |                            |                                       |                            |                                                                                     |                            |                              |                            |                              |                            |                              |                            |
|-----------------------------------------------------------------------|----------------------------|---------------------------------------|----------------------------|-------------------------------------------------------------------------------------|----------------------------|------------------------------|----------------------------|------------------------------|----------------------------|------------------------------|----------------------------|
| EAS Transport Planning                                                |                            |                                       |                            | Page 5                                                                              |                            |                              |                            |                              |                            |                              |                            |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |                            | BOTOLPH STREET<br>SW DRAINAGE NETWORK |                            |  |                            |                              |                            |                              |                            |                              |                            |
| Date 14/07/2022 00:41<br>File 20220713-Boltolph Stree...              |                            | Designed by EAS<br>Checked by         |                            |                                                                                     |                            |                              |                            |                              |                            |                              |                            |
| Innovyze                                                              |                            | Network 2020.1.3                      |                            |                                                                                     |                            |                              |                            |                              |                            |                              |                            |
| Surcharged Outfall Details for Storm                                  |                            |                                       |                            |                                                                                     |                            |                              |                            |                              |                            |                              |                            |
| <b>Time</b><br><b>(mins)</b>                                          | <b>Depth</b><br><b>(m)</b> | <b>Time</b><br><b>(mins)</b>          | <b>Depth</b><br><b>(m)</b> | <b>Time</b><br><b>(mins)</b>                                                        | <b>Depth</b><br><b>(m)</b> | <b>Time</b><br><b>(mins)</b> | <b>Depth</b><br><b>(m)</b> | <b>Time</b><br><b>(mins)</b> | <b>Depth</b><br><b>(m)</b> | <b>Time</b><br><b>(mins)</b> | <b>Depth</b><br><b>(m)</b> |
| 373                                                                   | 0.675                      | 423                                   | 0.675                      | 473                                                                                 | 0.675                      | 523                          | 0.675                      | 573                          | 0.675                      | 623                          | 0.675                      |
| 374                                                                   | 0.675                      | 424                                   | 0.675                      | 474                                                                                 | 0.675                      | 524                          | 0.675                      | 574                          | 0.675                      | 624                          | 0.675                      |
| 375                                                                   | 0.675                      | 425                                   | 0.675                      | 475                                                                                 | 0.675                      | 525                          | 0.675                      | 575                          | 0.675                      | 625                          | 0.675                      |
| 376                                                                   | 0.675                      | 426                                   | 0.675                      | 476                                                                                 | 0.675                      | 526                          | 0.675                      | 576                          | 0.675                      | 626                          | 0.675                      |
| 377                                                                   | 0.675                      | 427                                   | 0.675                      | 477                                                                                 | 0.675                      | 527                          | 0.675                      | 577                          | 0.675                      | 627                          | 0.675                      |
| 378                                                                   | 0.675                      | 428                                   | 0.675                      | 478                                                                                 | 0.675                      | 528                          | 0.675                      | 578                          | 0.675                      | 628                          | 0.675                      |
| 379                                                                   | 0.675                      | 429                                   | 0.675                      | 479                                                                                 | 0.675                      | 529                          | 0.675                      | 579                          | 0.675                      | 629                          | 0.675                      |
| 380                                                                   | 0.675                      | 430                                   | 0.675                      | 480                                                                                 | 0.675                      | 530                          | 0.675                      | 580                          | 0.675                      | 630                          | 0.675                      |
| 381                                                                   | 0.675                      | 431                                   | 0.675                      | 481                                                                                 | 0.675                      | 531                          | 0.675                      | 581                          | 0.675                      | 631                          | 0.675                      |
| 382                                                                   | 0.675                      | 432                                   | 0.675                      | 482                                                                                 | 0.675                      | 532                          | 0.675                      | 582                          | 0.675                      | 632                          | 0.675                      |
| 383                                                                   | 0.675                      | 433                                   | 0.675                      | 483                                                                                 | 0.675                      | 533                          | 0.675                      | 583                          | 0.675                      | 633                          | 0.675                      |
| 384                                                                   | 0.675                      | 434                                   | 0.675                      | 484                                                                                 | 0.675                      | 534                          | 0.675                      | 584                          | 0.675                      | 634                          | 0.675                      |
| 385                                                                   | 0.675                      | 435                                   | 0.675                      | 485                                                                                 | 0.675                      | 535                          | 0.675                      | 585                          | 0.675                      | 635                          | 0.675                      |
| 386                                                                   | 0.675                      | 436                                   | 0.675                      | 486                                                                                 | 0.675                      | 536                          | 0.675                      | 586                          | 0.675                      | 636                          | 0.675                      |
| 387                                                                   | 0.675                      | 437                                   | 0.675                      | 487                                                                                 | 0.675                      | 537                          | 0.675                      | 587                          | 0.675                      | 637                          | 0.675                      |
| 388                                                                   | 0.675                      | 438                                   | 0.675                      | 488                                                                                 | 0.675                      | 538                          | 0.675                      | 588                          | 0.675                      | 638                          | 0.675                      |
| 389                                                                   | 0.675                      | 439                                   | 0.675                      | 489                                                                                 | 0.675                      | 539                          | 0.675                      | 589                          | 0.675                      | 639                          | 0.675                      |
| 390                                                                   | 0.675                      | 440                                   | 0.675                      | 490                                                                                 | 0.675                      | 540                          | 0.675                      | 590                          | 0.675                      | 640                          | 0.675                      |
| 391                                                                   | 0.675                      | 441                                   | 0.675                      | 491                                                                                 | 0.675                      | 541                          | 0.675                      | 591                          | 0.675                      | 641                          | 0.675                      |
| 392                                                                   | 0.675                      | 442                                   | 0.675                      | 492                                                                                 | 0.675                      | 542                          | 0.675                      | 592                          | 0.675                      | 642                          | 0.675                      |
| 393                                                                   | 0.675                      | 443                                   | 0.675                      | 493                                                                                 | 0.675                      | 543                          | 0.675                      | 593                          | 0.675                      | 643                          | 0.675                      |
| 394                                                                   | 0.675                      | 444                                   | 0.675                      | 494                                                                                 | 0.675                      | 544                          | 0.675                      | 594                          | 0.675                      | 644                          | 0.675                      |
| 395                                                                   | 0.675                      | 445                                   | 0.675                      | 495                                                                                 | 0.675                      | 545                          | 0.675                      | 595                          | 0.675                      | 645                          | 0.675                      |
| 396                                                                   | 0.675                      | 446                                   | 0.675                      | 496                                                                                 | 0.675                      | 546                          | 0.675                      | 596                          | 0.675                      | 646                          | 0.675                      |
| 397                                                                   | 0.675                      | 447                                   | 0.675                      | 497                                                                                 | 0.675                      | 547                          | 0.675                      | 597                          | 0.675                      | 647                          | 0.675                      |
| 398                                                                   | 0.675                      | 448                                   | 0.675                      | 498                                                                                 | 0.675                      | 548                          | 0.675                      | 598                          | 0.675                      | 648                          | 0.675                      |
| 399                                                                   | 0.675                      | 449                                   | 0.675                      | 499                                                                                 | 0.675                      | 549                          | 0.675                      | 599                          | 0.675                      | 649                          | 0.675                      |
| 400                                                                   | 0.675                      | 450                                   | 0.675                      | 500                                                                                 | 0.675                      | 550                          | 0.675                      | 600                          | 0.675                      | 650                          | 0.675                      |
| 401                                                                   | 0.675                      | 451                                   | 0.675                      | 501                                                                                 | 0.675                      | 551                          | 0.675                      | 601                          | 0.675                      | 651                          | 0.675                      |
| 402                                                                   | 0.675                      | 452                                   | 0.675                      | 502                                                                                 | 0.675                      | 552                          | 0.675                      | 602                          | 0.675                      | 652                          | 0.675                      |
| 403                                                                   | 0.675                      | 453                                   | 0.675                      | 503                                                                                 | 0.675                      | 553                          | 0.675                      | 603                          | 0.675                      | 653                          | 0.675                      |
| 404                                                                   | 0.675                      | 454                                   | 0.675                      | 504                                                                                 | 0.675                      | 554                          | 0.675                      | 604                          | 0.675                      | 654                          | 0.675                      |
| 405                                                                   | 0.675                      | 455                                   | 0.675                      | 505                                                                                 | 0.675                      | 555                          | 0.675                      | 605                          | 0.675                      | 655                          | 0.675                      |
| 406                                                                   | 0.675                      | 456                                   | 0.675                      | 506                                                                                 | 0.675                      | 556                          | 0.675                      | 606                          | 0.675                      | 656                          | 0.675                      |
| 407                                                                   | 0.675                      | 457                                   | 0.675                      | 507                                                                                 | 0.675                      | 557                          | 0.675                      | 607                          | 0.675                      | 657                          | 0.675                      |
| 408                                                                   | 0.675                      | 458                                   | 0.675                      | 508                                                                                 | 0.675                      | 558                          | 0.675                      | 608                          | 0.675                      | 658                          | 0.675                      |
| 409                                                                   | 0.675                      | 459                                   | 0.675                      | 509                                                                                 | 0.675                      | 559                          | 0.675                      | 609                          | 0.675                      | 659                          | 0.675                      |
| 410                                                                   | 0.675                      | 460                                   | 0.675                      | 510                                                                                 | 0.675                      | 560                          | 0.675                      | 610                          | 0.675                      | 660                          | 0.675                      |
| 411                                                                   | 0.675                      | 461                                   | 0.675                      | 511                                                                                 | 0.675                      | 561                          | 0.675                      | 611                          | 0.675                      | 661                          | 0.675                      |
| 412                                                                   | 0.675                      | 462                                   | 0.675                      | 512                                                                                 | 0.675                      | 562                          | 0.675                      | 612                          | 0.675                      | 662                          | 0.675                      |
| 413                                                                   | 0.675                      | 463                                   | 0.675                      | 513                                                                                 | 0.675                      | 563                          | 0.675                      | 613                          | 0.675                      | 663                          | 0.675                      |
| 414                                                                   | 0.675                      | 464                                   | 0.675                      | 514                                                                                 | 0.675                      | 564                          | 0.675                      | 614                          | 0.675                      | 664                          | 0.675                      |
| 415                                                                   | 0.675                      | 465                                   | 0.675                      | 515                                                                                 | 0.675                      | 565                          | 0.675                      | 615                          | 0.675                      | 665                          | 0.675                      |
| 416                                                                   | 0.675                      | 466                                   | 0.675                      | 516                                                                                 | 0.675                      | 566                          | 0.675                      | 616                          | 0.675                      | 666                          | 0.675                      |
| 417                                                                   | 0.675                      | 467                                   | 0.675                      | 517                                                                                 | 0.675                      | 567                          | 0.675                      | 617                          | 0.675                      | 667                          | 0.675                      |
| 418                                                                   | 0.675                      | 468                                   | 0.675                      | 518                                                                                 | 0.675                      | 568                          | 0.675                      | 618                          | 0.675                      | 668                          | 0.675                      |
| 419                                                                   | 0.675                      | 469                                   | 0.675                      | 519                                                                                 | 0.675                      | 569                          | 0.675                      | 619                          | 0.675                      | 669                          | 0.675                      |
| 420                                                                   | 0.675                      | 470                                   | 0.675                      | 520                                                                                 | 0.675                      | 570                          | 0.675                      | 620                          | 0.675                      | 670                          | 0.675                      |
| 421                                                                   | 0.675                      | 471                                   | 0.675                      | 521                                                                                 | 0.675                      | 571                          | 0.675                      | 621                          | 0.675                      | 671                          | 0.675                      |
| 422                                                                   | 0.675                      | 472                                   | 0.675                      | 522                                                                                 | 0.675                      | 572                          | 0.675                      | 622                          | 0.675                      | 672                          | 0.675                      |
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|                                                                       |              |                |              |                                       |              |                |              |                |              |                                                                                     |              |
|-----------------------------------------------------------------------|--------------|----------------|--------------|---------------------------------------|--------------|----------------|--------------|----------------|--------------|-------------------------------------------------------------------------------------|--------------|
| EAS Transport Planning                                                |              |                |              |                                       |              |                |              |                |              | Page 6                                                                              |              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |              |                |              | BOTOLPH STREET<br>SW DRAINAGE NETWORK |              |                |              |                |              |  |              |
| Date 14/07/2022 00:41<br>File 20220713-Boltolph Stree...              |              |                |              | Designed by EAS<br>Checked by         |              |                |              |                |              |                                                                                     |              |
| Innovyze                                                              |              |                |              | Network 2020.1.3                      |              |                |              |                |              |                                                                                     |              |
| <u>Surcharged Outfall Details for Storm</u>                           |              |                |              |                                       |              |                |              |                |              |                                                                                     |              |
| Time<br>(mins)                                                        | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                        | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) |
| 673                                                                   | 0.675        | 723            | 0.675        | 773                                   | 0.675        | 823            | 0.675        | 873            | 0.675        | 923                                                                                 | 0.675        |
| 674                                                                   | 0.675        | 724            | 0.675        | 774                                   | 0.675        | 824            | 0.675        | 874            | 0.675        | 924                                                                                 | 0.675        |
| 675                                                                   | 0.675        | 725            | 0.675        | 775                                   | 0.675        | 825            | 0.675        | 875            | 0.675        | 925                                                                                 | 0.675        |
| 676                                                                   | 0.675        | 726            | 0.675        | 776                                   | 0.675        | 826            | 0.675        | 876            | 0.675        | 926                                                                                 | 0.675        |
| 677                                                                   | 0.675        | 727            | 0.675        | 777                                   | 0.675        | 827            | 0.675        | 877            | 0.675        | 927                                                                                 | 0.675        |
| 678                                                                   | 0.675        | 728            | 0.675        | 778                                   | 0.675        | 828            | 0.675        | 878            | 0.675        | 928                                                                                 | 0.675        |
| 679                                                                   | 0.675        | 729            | 0.675        | 779                                   | 0.675        | 829            | 0.675        | 879            | 0.675        | 929                                                                                 | 0.675        |
| 680                                                                   | 0.675        | 730            | 0.675        | 780                                   | 0.675        | 830            | 0.675        | 880            | 0.675        | 930                                                                                 | 0.675        |
| 681                                                                   | 0.675        | 731            | 0.675        | 781                                   | 0.675        | 831            | 0.675        | 881            | 0.675        | 931                                                                                 | 0.675        |
| 682                                                                   | 0.675        | 732            | 0.675        | 782                                   | 0.675        | 832            | 0.675        | 882            | 0.675        | 932                                                                                 | 0.675        |
| 683                                                                   | 0.675        | 733            | 0.675        | 783                                   | 0.675        | 833            | 0.675        | 883            | 0.675        | 933                                                                                 | 0.675        |
| 684                                                                   | 0.675        | 734            | 0.675        | 784                                   | 0.675        | 834            | 0.675        | 884            | 0.675        | 934                                                                                 | 0.675        |
| 685                                                                   | 0.675        | 735            | 0.675        | 785                                   | 0.675        | 835            | 0.675        | 885            | 0.675        | 935                                                                                 | 0.675        |
| 686                                                                   | 0.675        | 736            | 0.675        | 786                                   | 0.675        | 836            | 0.675        | 886            | 0.675        | 936                                                                                 | 0.675        |
| 687                                                                   | 0.675        | 737            | 0.675        | 787                                   | 0.675        | 837            | 0.675        | 887            | 0.675        | 937                                                                                 | 0.675        |
| 688                                                                   | 0.675        | 738            | 0.675        | 788                                   | 0.675        | 838            | 0.675        | 888            | 0.675        | 938                                                                                 | 0.675        |
| 689                                                                   | 0.675        | 739            | 0.675        | 789                                   | 0.675        | 839            | 0.675        | 889            | 0.675        | 939                                                                                 | 0.675        |
| 690                                                                   | 0.675        | 740            | 0.675        | 790                                   | 0.675        | 840            | 0.675        | 890            | 0.675        | 940                                                                                 | 0.675        |
| 691                                                                   | 0.675        | 741            | 0.675        | 791                                   | 0.675        | 841            | 0.675        | 891            | 0.675        | 941                                                                                 | 0.675        |
| 692                                                                   | 0.675        | 742            | 0.675        | 792                                   | 0.675        | 842            | 0.675        | 892            | 0.675        | 942                                                                                 | 0.675        |
| 693                                                                   | 0.675        | 743            | 0.675        | 793                                   | 0.675        | 843            | 0.675        | 893            | 0.675        | 943                                                                                 | 0.675        |
| 694                                                                   | 0.675        | 744            | 0.675        | 794                                   | 0.675        | 844            | 0.675        | 894            | 0.675        | 944                                                                                 | 0.675        |
| 695                                                                   | 0.675        | 745            | 0.675        | 795                                   | 0.675        | 845            | 0.675        | 895            | 0.675        | 945                                                                                 | 0.675        |
| 696                                                                   | 0.675        | 746            | 0.675        | 796                                   | 0.675        | 846            | 0.675        | 896            | 0.675        | 946                                                                                 | 0.675        |
| 697                                                                   | 0.675        | 747            | 0.675        | 797                                   | 0.675        | 847            | 0.675        | 897            | 0.675        | 947                                                                                 | 0.675        |
| 698                                                                   | 0.675        | 748            | 0.675        | 798                                   | 0.675        | 848            | 0.675        | 898            | 0.675        | 948                                                                                 | 0.675        |
| 699                                                                   | 0.675        | 749            | 0.675        | 799                                   | 0.675        | 849            | 0.675        | 899            | 0.675        | 949                                                                                 | 0.675        |
| 700                                                                   | 0.675        | 750            | 0.675        | 800                                   | 0.675        | 850            | 0.675        | 900            | 0.675        | 950                                                                                 | 0.675        |
| 701                                                                   | 0.675        | 751            | 0.675        | 801                                   | 0.675        | 851            | 0.675        | 901            | 0.675        | 951                                                                                 | 0.675        |
| 702                                                                   | 0.675        | 752            | 0.675        | 802                                   | 0.675        | 852            | 0.675        | 902            | 0.675        | 952                                                                                 | 0.675        |
| 703                                                                   | 0.675        | 753            | 0.675        | 803                                   | 0.675        | 853            | 0.675        | 903            | 0.675        | 953                                                                                 | 0.675        |
| 704                                                                   | 0.675        | 754            | 0.675        | 804                                   | 0.675        | 854            | 0.675        | 904            | 0.675        | 954                                                                                 | 0.675        |
| 705                                                                   | 0.675        | 755            | 0.675        | 805                                   | 0.675        | 855            | 0.675        | 905            | 0.675        | 955                                                                                 | 0.675        |
| 706                                                                   | 0.675        | 756            | 0.675        | 806                                   | 0.675        | 856            | 0.675        | 906            | 0.675        | 956                                                                                 | 0.675        |
| 707                                                                   | 0.675        | 757            | 0.675        | 807                                   | 0.675        | 857            | 0.675        | 907            | 0.675        | 957                                                                                 | 0.675        |
| 708                                                                   | 0.675        | 758            | 0.675        | 808                                   | 0.675        | 858            | 0.675        | 908            | 0.675        | 958                                                                                 | 0.675        |
| 709                                                                   | 0.675        | 759            | 0.675        | 809                                   | 0.675        | 859            | 0.675        | 909            | 0.675        | 959                                                                                 | 0.675        |
| 710                                                                   | 0.675        | 760            | 0.675        | 810                                   | 0.675        | 860            | 0.675        | 910            | 0.675        | 960                                                                                 | 0.675        |
| 711                                                                   | 0.675        | 761            | 0.675        | 811                                   | 0.675        | 861            | 0.675        | 911            | 0.675        | 961                                                                                 | 0.675        |
| 712                                                                   | 0.675        | 762            | 0.675        | 812                                   | 0.675        | 862            | 0.675        | 912            | 0.675        | 962                                                                                 | 0.675        |
| 713                                                                   | 0.675        | 763            | 0.675        | 813                                   | 0.675        | 863            | 0.675        | 913            | 0.675        | 963                                                                                 | 0.675        |
| 714                                                                   | 0.675        | 764            | 0.675        | 814                                   | 0.675        | 864            | 0.675        | 914            | 0.675        | 964                                                                                 | 0.675        |
| 715                                                                   | 0.675        | 765            | 0.675        | 815                                   | 0.675        | 865            | 0.675        | 915            | 0.675        | 965                                                                                 | 0.675        |
| 716                                                                   | 0.675        | 766            | 0.675        | 816                                   | 0.675        | 866            | 0.675        | 916            | 0.675        | 966                                                                                 | 0.675        |
| 717                                                                   | 0.675        | 767            | 0.675        | 817                                   | 0.675        | 867            | 0.675        | 917            | 0.675        | 967                                                                                 | 0.675        |
| 718                                                                   | 0.675        | 768            | 0.675        | 818                                   | 0.675        | 868            | 0.675        | 918            | 0.675        | 968                                                                                 | 0.675        |
| 719                                                                   | 0.675        | 769            | 0.675        | 819                                   | 0.675        | 869            | 0.675        | 919            | 0.675        | 969                                                                                 | 0.675        |
| 720                                                                   | 0.675        | 770            | 0.675        | 820                                   | 0.675        | 870            | 0.675        | 920            | 0.675        | 970                                                                                 | 0.675        |
| 721                                                                   | 0.675        | 771            | 0.675        | 821                                   | 0.675        | 871            | 0.675        | 921            | 0.675        | 971                                                                                 | 0.675        |
| 722                                                                   | 0.675        | 772            | 0.675        | 822                                   | 0.675        | 872            | 0.675        | 922            | 0.675        | 972                                                                                 | 0.675        |
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|                                                                       |              |                |              |                                       |              |                |              |                |              |                                                                                     |              |
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| EAS Transport Planning                                                |              |                |              |                                       |              |                |              |                |              | Page 7                                                                              |              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |              |                |              | BOTOLPH STREET<br>SW DRAINAGE NETWORK |              |                |              |                |              |  |              |
| Date 14/07/2022 00:41<br>File 20220713-Boltolph Stree...              |              |                |              | Designed by EAS<br>Checked by         |              |                |              |                |              |                                                                                     |              |
| Innovyze                                                              |              |                |              | Network 2020.1.3                      |              |                |              |                |              |                                                                                     |              |
| Surcharged Outfall Details for Storm                                  |              |                |              |                                       |              |                |              |                |              |                                                                                     |              |
| Time<br>(mins)                                                        | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                        | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) |
| 973                                                                   | 0.675        | 1023           | 0.675        | 1073                                  | 0.675        | 1123           | 0.675        | 1173           | 0.675        | 1223                                                                                | 0.675        |
| 974                                                                   | 0.675        | 1024           | 0.675        | 1074                                  | 0.675        | 1124           | 0.675        | 1174           | 0.675        | 1224                                                                                | 0.675        |
| 975                                                                   | 0.675        | 1025           | 0.675        | 1075                                  | 0.675        | 1125           | 0.675        | 1175           | 0.675        | 1225                                                                                | 0.675        |
| 976                                                                   | 0.675        | 1026           | 0.675        | 1076                                  | 0.675        | 1126           | 0.675        | 1176           | 0.675        | 1226                                                                                | 0.675        |
| 977                                                                   | 0.675        | 1027           | 0.675        | 1077                                  | 0.675        | 1127           | 0.675        | 1177           | 0.675        | 1227                                                                                | 0.675        |
| 978                                                                   | 0.675        | 1028           | 0.675        | 1078                                  | 0.675        | 1128           | 0.675        | 1178           | 0.675        | 1228                                                                                | 0.675        |
| 979                                                                   | 0.675        | 1029           | 0.675        | 1079                                  | 0.675        | 1129           | 0.675        | 1179           | 0.675        | 1229                                                                                | 0.675        |
| 980                                                                   | 0.675        | 1030           | 0.675        | 1080                                  | 0.675        | 1130           | 0.675        | 1180           | 0.675        | 1230                                                                                | 0.675        |
| 981                                                                   | 0.675        | 1031           | 0.675        | 1081                                  | 0.675        | 1131           | 0.675        | 1181           | 0.675        | 1231                                                                                | 0.675        |
| 982                                                                   | 0.675        | 1032           | 0.675        | 1082                                  | 0.675        | 1132           | 0.675        | 1182           | 0.675        | 1232                                                                                | 0.675        |
| 983                                                                   | 0.675        | 1033           | 0.675        | 1083                                  | 0.675        | 1133           | 0.675        | 1183           | 0.675        | 1233                                                                                | 0.675        |
| 984                                                                   | 0.675        | 1034           | 0.675        | 1084                                  | 0.675        | 1134           | 0.675        | 1184           | 0.675        | 1234                                                                                | 0.675        |
| 985                                                                   | 0.675        | 1035           | 0.675        | 1085                                  | 0.675        | 1135           | 0.675        | 1185           | 0.675        | 1235                                                                                | 0.675        |
| 986                                                                   | 0.675        | 1036           | 0.675        | 1086                                  | 0.675        | 1136           | 0.675        | 1186           | 0.675        | 1236                                                                                | 0.675        |
| 987                                                                   | 0.675        | 1037           | 0.675        | 1087                                  | 0.675        | 1137           | 0.675        | 1187           | 0.675        | 1237                                                                                | 0.675        |
| 988                                                                   | 0.675        | 1038           | 0.675        | 1088                                  | 0.675        | 1138           | 0.675        | 1188           | 0.675        | 1238                                                                                | 0.675        |
| 989                                                                   | 0.675        | 1039           | 0.675        | 1089                                  | 0.675        | 1139           | 0.675        | 1189           | 0.675        | 1239                                                                                | 0.675        |
| 990                                                                   | 0.675        | 1040           | 0.675        | 1090                                  | 0.675        | 1140           | 0.675        | 1190           | 0.675        | 1240                                                                                | 0.675        |
| 991                                                                   | 0.675        | 1041           | 0.675        | 1091                                  | 0.675        | 1141           | 0.675        | 1191           | 0.675        | 1241                                                                                | 0.675        |
| 992                                                                   | 0.675        | 1042           | 0.675        | 1092                                  | 0.675        | 1142           | 0.675        | 1192           | 0.675        | 1242                                                                                | 0.675        |
| 993                                                                   | 0.675        | 1043           | 0.675        | 1093                                  | 0.675        | 1143           | 0.675        | 1193           | 0.675        | 1243                                                                                | 0.675        |
| 994                                                                   | 0.675        | 1044           | 0.675        | 1094                                  | 0.675        | 1144           | 0.675        | 1194           | 0.675        | 1244                                                                                | 0.675        |
| 995                                                                   | 0.675        | 1045           | 0.675        | 1095                                  | 0.675        | 1145           | 0.675        | 1195           | 0.675        | 1245                                                                                | 0.675        |
| 996                                                                   | 0.675        | 1046           | 0.675        | 1096                                  | 0.675        | 1146           | 0.675        | 1196           | 0.675        | 1246                                                                                | 0.675        |
| 997                                                                   | 0.675        | 1047           | 0.675        | 1097                                  | 0.675        | 1147           | 0.675        | 1197           | 0.675        | 1247                                                                                | 0.675        |
| 998                                                                   | 0.675        | 1048           | 0.675        | 1098                                  | 0.675        | 1148           | 0.675        | 1198           | 0.675        | 1248                                                                                | 0.675        |
| 999                                                                   | 0.675        | 1049           | 0.675        | 1099                                  | 0.675        | 1149           | 0.675        | 1199           | 0.675        | 1249                                                                                | 0.675        |
| 1000                                                                  | 0.675        | 1050           | 0.675        | 1100                                  | 0.675        | 1150           | 0.675        | 1200           | 0.675        | 1250                                                                                | 0.675        |
| 1001                                                                  | 0.675        | 1051           | 0.675        | 1101                                  | 0.675        | 1151           | 0.675        | 1201           | 0.675        | 1251                                                                                | 0.675        |
| 1002                                                                  | 0.675        | 1052           | 0.675        | 1102                                  | 0.675        | 1152           | 0.675        | 1202           | 0.675        | 1252                                                                                | 0.675        |
| 1003                                                                  | 0.675        | 1053           | 0.675        | 1103                                  | 0.675        | 1153           | 0.675        | 1203           | 0.675        | 1253                                                                                | 0.675        |
| 1004                                                                  | 0.675        | 1054           | 0.675        | 1104                                  | 0.675        | 1154           | 0.675        | 1204           | 0.675        | 1254                                                                                | 0.675        |
| 1005                                                                  | 0.675        | 1055           | 0.675        | 1105                                  | 0.675        | 1155           | 0.675        | 1205           | 0.675        | 1255                                                                                | 0.675        |
| 1006                                                                  | 0.675        | 1056           | 0.675        | 1106                                  | 0.675        | 1156           | 0.675        | 1206           | 0.675        | 1256                                                                                | 0.675        |
| 1007                                                                  | 0.675        | 1057           | 0.675        | 1107                                  | 0.675        | 1157           | 0.675        | 1207           | 0.675        | 1257                                                                                | 0.675        |
| 1008                                                                  | 0.675        | 1058           | 0.675        | 1108                                  | 0.675        | 1158           | 0.675        | 1208           | 0.675        | 1258                                                                                | 0.675        |
| 1009                                                                  | 0.675        | 1059           | 0.675        | 1109                                  | 0.675        | 1159           | 0.675        | 1209           | 0.675        | 1259                                                                                | 0.675        |
| 1010                                                                  | 0.675        | 1060           | 0.675        | 1110                                  | 0.675        | 1160           | 0.675        | 1210           | 0.675        | 1260                                                                                | 0.675        |
| 1011                                                                  | 0.675        | 1061           | 0.675        | 1111                                  | 0.675        | 1161           | 0.675        | 1211           | 0.675        | 1261                                                                                | 0.675        |
| 1012                                                                  | 0.675        | 1062           | 0.675        | 1112                                  | 0.675        | 1162           | 0.675        | 1212           | 0.675        | 1262                                                                                | 0.675        |
| 1013                                                                  | 0.675        | 1063           | 0.675        | 1113                                  | 0.675        | 1163           | 0.675        | 1213           | 0.675        | 1263                                                                                | 0.675        |
| 1014                                                                  | 0.675        | 1064           | 0.675        | 1114                                  | 0.675        | 1164           | 0.675        | 1214           | 0.675        | 1264                                                                                | 0.675        |
| 1015                                                                  | 0.675        | 1065           | 0.675        | 1115                                  | 0.675        | 1165           | 0.675        | 1215           | 0.675        | 1265                                                                                | 0.675        |
| 1016                                                                  | 0.675        | 1066           | 0.675        | 1116                                  | 0.675        | 1166           | 0.675        | 1216           | 0.675        | 1266                                                                                | 0.675        |
| 1017                                                                  | 0.675        | 1067           | 0.675        | 1117                                  | 0.675        | 1167           | 0.675        | 1217           | 0.675        | 1267                                                                                | 0.675        |
| 1018                                                                  | 0.675        | 1068           | 0.675        | 1118                                  | 0.675        | 1168           | 0.675        | 1218           | 0.675        | 1268                                                                                | 0.675        |
| 1019                                                                  | 0.675        | 1069           | 0.675        | 1119                                  | 0.675        | 1169           | 0.675        | 1219           | 0.675        | 1269                                                                                | 0.675        |
| 1020                                                                  | 0.675        | 1070           | 0.675        | 1120                                  | 0.675        | 1170           | 0.675        | 1220           | 0.675        | 1270                                                                                | 0.675        |
| 1021                                                                  | 0.675        | 1071           | 0.675        | 1121                                  | 0.675        | 1171           | 0.675        | 1221           | 0.675        | 1271                                                                                | 0.675        |
| 1022                                                                  | 0.675        | 1072           | 0.675        | 1122                                  | 0.675        | 1172           | 0.675        | 1222           | 0.675        | 1272                                                                                | 0.675        |
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|                                                                       |              |                                       |              |                                                                                     |              |                |              |                |              |
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| EAS Transport Planning                                                |              |                                       |              | Page 8                                                                              |              |                |              |                |              |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG |              | BOTOLPH STREET<br>SW DRAINAGE NETWORK |              |  |              |                |              |                |              |
| Date 14/07/2022 00:41<br>File 20220713-Boltolph Stree...              |              | Designed by EAS<br>Checked by         |              |                                                                                     |              |                |              |                |              |
| Innovyze                                                              |              | Network 2020.1.3                      |              |                                                                                     |              |                |              |                |              |
| <u>Surcharged Outfall Details for Storm</u>                           |              |                                       |              |                                                                                     |              |                |              |                |              |
| Time<br>(mins)                                                        | Depth<br>(m) | Time<br>(mins)                        | Depth<br>(m) | Time<br>(mins)                                                                      | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) |
| 1273                                                                  | 0.675        | 1301                                  | 0.675        | 1329                                                                                | 0.675        | 1357           | 0.675        | 1385           | 0.675        |
| 1274                                                                  | 0.675        | 1302                                  | 0.675        | 1330                                                                                | 0.675        | 1358           | 0.675        | 1386           | 0.675        |
| 1275                                                                  | 0.675        | 1303                                  | 0.675        | 1331                                                                                | 0.675        | 1359           | 0.675        | 1387           | 0.675        |
| 1276                                                                  | 0.675        | 1304                                  | 0.675        | 1332                                                                                | 0.675        | 1360           | 0.675        | 1388           | 0.675        |
| 1277                                                                  | 0.675        | 1305                                  | 0.675        | 1333                                                                                | 0.675        | 1361           | 0.675        | 1389           | 0.675        |
| 1278                                                                  | 0.675        | 1306                                  | 0.675        | 1334                                                                                | 0.675        | 1362           | 0.675        | 1390           | 0.675        |
| 1279                                                                  | 0.675        | 1307                                  | 0.675        | 1335                                                                                | 0.675        | 1363           | 0.675        | 1391           | 0.675        |
| 1280                                                                  | 0.675        | 1308                                  | 0.675        | 1336                                                                                | 0.675        | 1364           | 0.675        | 1392           | 0.675        |
| 1281                                                                  | 0.675        | 1309                                  | 0.675        | 1337                                                                                | 0.675        | 1365           | 0.675        | 1393           | 0.675        |
| 1282                                                                  | 0.675        | 1310                                  | 0.675        | 1338                                                                                | 0.675        | 1366           | 0.675        | 1394           | 0.675        |
| 1283                                                                  | 0.675        | 1311                                  | 0.675        | 1339                                                                                | 0.675        | 1367           | 0.675        | 1395           | 0.675        |
| 1284                                                                  | 0.675        | 1312                                  | 0.675        | 1340                                                                                | 0.675        | 1368           | 0.675        | 1396           | 0.675        |
| 1285                                                                  | 0.675        | 1313                                  | 0.675        | 1341                                                                                | 0.675        | 1369           | 0.675        | 1397           | 0.675        |
| 1286                                                                  | 0.675        | 1314                                  | 0.675        | 1342                                                                                | 0.675        | 1370           | 0.675        | 1398           | 0.675        |
| 1287                                                                  | 0.675        | 1315                                  | 0.675        | 1343                                                                                | 0.675        | 1371           | 0.675        | 1399           | 0.675        |
| 1288                                                                  | 0.675        | 1316                                  | 0.675        | 1344                                                                                | 0.675        | 1372           | 0.675        | 1400           | 0.675        |
| 1289                                                                  | 0.675        | 1317                                  | 0.675        | 1345                                                                                | 0.675        | 1373           | 0.675        | 1401           | 0.675        |
| 1290                                                                  | 0.675        | 1318                                  | 0.675        | 1346                                                                                | 0.675        | 1374           | 0.675        | 1402           | 0.675        |
| 1291                                                                  | 0.675        | 1319                                  | 0.675        | 1347                                                                                | 0.675        | 1375           | 0.675        | 1403           | 0.675        |
| 1292                                                                  | 0.675        | 1320                                  | 0.675        | 1348                                                                                | 0.675        | 1376           | 0.675        | 1404           | 0.675        |
| 1293                                                                  | 0.675        | 1321                                  | 0.675        | 1349                                                                                | 0.675        | 1377           | 0.675        | 1405           | 0.675        |
| 1294                                                                  | 0.675        | 1322                                  | 0.675        | 1350                                                                                | 0.675        | 1378           | 0.675        | 1406           | 0.675        |
| 1295                                                                  | 0.675        | 1323                                  | 0.675        | 1351                                                                                | 0.675        | 1379           | 0.675        | 1407           | 0.675        |
| 1296                                                                  | 0.675        | 1324                                  | 0.675        | 1352                                                                                | 0.675        | 1380           | 0.675        | 1408           | 0.675        |
| 1297                                                                  | 0.675        | 1325                                  | 0.675        | 1353                                                                                | 0.675        | 1381           | 0.675        | 1409           | 0.675        |
| 1298                                                                  | 0.675        | 1326                                  | 0.675        | 1354                                                                                | 0.675        | 1382           | 0.675        | 1410           | 0.675        |
| 1299                                                                  | 0.675        | 1327                                  | 0.675        | 1355                                                                                | 0.675        | 1383           | 0.675        | 1411           | 0.675        |
| 1300                                                                  | 0.675        | 1328                                  | 0.675        | 1356                                                                                | 0.675        | 1384           | 0.675        | 1412           | 0.675        |
| <u>Simulation Criteria for Storm</u>                                  |              |                                       |              |                                                                                     |              |                |              |                |              |
| Volumetric Runoff Coeff 0.750                                         |              |                                       |              | Additional Flow - % of Total Flow 0.000                                             |              |                |              |                |              |
| Areal Reduction Factor 1.000                                          |              |                                       |              | MADD Factor * 10m³/ha Storage 2.000                                                 |              |                |              |                |              |
| Hot Start (mins) 0                                                    |              |                                       |              | Inlet Coeffiecient 0.800                                                            |              |                |              |                |              |
| Hot Start Level (mm) 0                                                |              |                                       |              | Flow per Person per Day (l/per/day) 0.000                                           |              |                |              |                |              |
| Manhole Headloss Coeff (Global) 0.500                                 |              |                                       |              | Run Time (mins) 60                                                                  |              |                |              |                |              |
| Foul Sewage per hectare (l/s) 0.000                                   |              |                                       |              | Output Interval (mins) 1                                                            |              |                |              |                |              |
| Number of Input Hydrographs 0                                         |              |                                       |              |                                                                                     |              |                |              |                |              |
| Number of Storage Structures 0                                        |              |                                       |              |                                                                                     |              |                |              |                |              |
| Number of Online Controls 1                                           |              |                                       |              |                                                                                     |              |                |              |                |              |
| Number of Time/Area Diagrams 0                                        |              |                                       |              |                                                                                     |              |                |              |                |              |
| Number of Offline Controls 0                                          |              |                                       |              |                                                                                     |              |                |              |                |              |
| Number of Real Time Controls 0                                        |              |                                       |              |                                                                                     |              |                |              |                |              |
| <u>Synthetic Rainfall Details</u>                                     |              |                                       |              |                                                                                     |              |                |              |                |              |
| Rainfall Model                                                        |              | FSR                                   |              | Profile Type                                                                        |              | Summer         |              |                |              |
| Return Period (years)                                                 |              | 5                                     |              | Cv (Summer)                                                                         |              | 0.750          |              |                |              |
| Region                                                                |              | England and Wales                     |              | Cv (Winter)                                                                         |              | 0.840          |              |                |              |
| M5-60 (mm)                                                            |              | 20.000                                |              | Storm Duration (mins)                                                               |              | 30             |              |                |              |
| Ratio R                                                               |              | 0.410                                 |              |                                                                                     |              |                |              |                |              |
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| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       | Page 9                                                                              |            |            |            |            |            |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | BOTOLPH STREET<br>SW DRAINAGE NETWORK |  |            |            |            |            |            |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Date 14/07/2022 00:41<br>File 20220713-Boltolph Stree...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Designed by EAS<br>Checked by         |                                                                                     |            |            |            |            |            |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| Innovyze<br>Network 2020.1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |                                                                                     |            |            |            |            |            |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| <div>Online Controls for Storm</div> <div>Hydro-Brake® Optimum Manhole: B.SY HYDRO, DS/PN: 1.006, Volume (m³): 9.8</div> <div><div>Unit Reference MD-SHE-0131-1000-2000-1000</div><div>Design Head (m)2.000</div><div>Design Flow (l/s)10.0</div><div>Flush-Flo™Calculated</div><div>ObjectiveMinimise upstream storage</div><div>ApplicationSurface</div><div>Sump AvailableYes</div><div>Diameter (mm)131</div><div>Invert Level (m)2.100</div><div>Minimum Outlet Pipe Diameter (mm)150</div><div>Suggested Manhole Diameter (mm)1500</div></div> <div><div>Control Points</div><div>Head (m)Flow (l/s)</div><div>Design Point (Calculated)2.00010.0</div><div>Flush-Flo™0.5699.8</div><div>Kick-Flo®1.1677.8</div><div>Mean Flow over Head Range-8.7</div></div> <div>The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated</div> <div><table><tr><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td></tr><tr><td>0.100</td><td>4.7</td><td>1.200</td><td>7.9</td><td>3.000</td><td>12.1</td><td>7.000</td><td>18.1</td></tr><tr><td>0.200</td><td>8.3</td><td>1.400</td><td>8.5</td><td>3.500</td><td>13.0</td><td>7.500</td><td>18.7</td></tr><tr><td>0.300</td><td>9.2</td><td>1.600</td><td>9.0</td><td>4.000</td><td>13.9</td><td>8.000</td><td>19.3</td></tr><tr><td>0.400</td><td>9.6</td><td>1.800</td><td>9.5</td><td>4.500</td><td>14.7</td><td>8.500</td><td>19.9</td></tr><tr><td>0.500</td><td>9.8</td><td>2.000</td><td>10.0</td><td>5.000</td><td>15.4</td><td>9.000</td><td>20.5</td></tr><tr><td>0.600</td><td>9.8</td><td>2.200</td><td>10.5</td><td>5.500</td><td>16.2</td><td>9.500</td><td>21.0</td></tr><tr><td>0.800</td><td>9.6</td><td>2.400</td><td>10.9</td><td>6.000</td><td>16.8</td><td></td><td></td></tr><tr><td>1.000</td><td>9.0</td><td>2.600</td><td>11.3</td><td>6.500</td><td>17.5</td><td></td><td></td></tr></table></div> <div>©1982-2020 Innovyze</div> |                                       |                                                                                     | Depth (m)  | Flow (l/s) | Depth (m)  | Flow (l/s) | Depth (m)  | Flow (l/s) | Depth (m) | Flow (l/s) | 0.100 | 4.7 | 1.200 | 7.9 | 3.000 | 12.1 | 7.000 | 18.1 | 0.200 | 8.3 | 1.400 | 8.5 | 3.500 | 13.0 | 7.500 | 18.7 | 0.300 | 9.2 | 1.600 | 9.0 | 4.000 | 13.9 | 8.000 | 19.3 | 0.400 | 9.6 | 1.800 | 9.5 | 4.500 | 14.7 | 8.500 | 19.9 | 0.500 | 9.8 | 2.000 | 10.0 | 5.000 | 15.4 | 9.000 | 20.5 | 0.600 | 9.8 | 2.200 | 10.5 | 5.500 | 16.2 | 9.500 | 21.0 | 0.800 | 9.6 | 2.400 | 10.9 | 6.000 | 16.8 |  |  | 1.000 | 9.0 | 2.600 | 11.3 | 6.500 | 17.5 |  |  |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Flow (l/s)                            | Depth (m)                                                                           | Flow (l/s) | Depth (m)  | Flow (l/s) | Depth (m)  | Flow (l/s) |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4.7                                   | 1.200                                                                               | 7.9        | 3.000      | 12.1       | 7.000      | 18.1       |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8.3                                   | 1.400                                                                               | 8.5        | 3.500      | 13.0       | 7.500      | 18.7       |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9.2                                   | 1.600                                                                               | 9.0        | 4.000      | 13.9       | 8.000      | 19.3       |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9.6                                   | 1.800                                                                               | 9.5        | 4.500      | 14.7       | 8.500      | 19.9       |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9.8                                   | 2.000                                                                               | 10.0       | 5.000      | 15.4       | 9.000      | 20.5       |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9.8                                   | 2.200                                                                               | 10.5       | 5.500      | 16.2       | 9.500      | 21.0       |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 0.800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9.6                                   | 2.400                                                                               | 10.9       | 6.000      | 16.8       |            |            |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |
| 1.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 9.0                                   | 2.600                                                                               | 11.3       | 6.500      | 17.5       |            |            |            |           |            |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |     |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |       |      |       |     |       |      |       |      |  |  |       |     |       |      |       |      |  |  |

EAS Transport Planning

Unit 23, The Maltings  
Stanstead Abbotts  
Hertfordshire, SG12 8HG

Date 14/07/2022 00:41  
File 20220713-Boltolph Stree...

Innovyze

BOTOLPH STREET  
SW DRAINAGE NETWORK

Designed by EAS  
Checked by

Network 2020.1.3

Page 10



100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000

Additional Flow - % of Total Flow 0.000

Hot Start (mins) 0

MADD Factor \* 10m³/ha Storage 2.000

Hot Start Level (mm) 0

Inlet Coefficient 0.800

Manhole Headloss Coeff (Global) 0.500

Flow per Person per Day (l/per/day) 0.000

Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0

Number of Storage Structures 0

Number of Online Controls 1

Number of Time/Area Diagrams 0

Number of Offline Controls 0

Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FEH

FEH Rainfall Version 2013

Site Location GB 623065 309383 TG 23065 09383

Data Type Point

Cv (Summer) 0.750

Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status ON

DVD Status ON

Inertia Status OFF

Profile(s) Summer and Winter

Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440

Return Period(s) (years) 100

Climate Change (%) 45

PN

US/MH  
Name

Event

US/CL  
(m)

Water  
Level  
(m)

Surcharged  
Depth  
(m)

Flooded  
Volume  
(m³)

Maximum  
Vol (m³)

1.000

B.ST 01

60 minute

100 year

Winter I+45%

4.500

3.918

0.929

0.000

3.687

1.001

B.ST 02

60 minute

100 year

Winter I+45%

4.500

3.918

1.028

0.000

12.078

1.002

B.ST 03

60 minute

100 year

Winter I+45%

4.500

3.917

1.116

0.000

11.480

1.003

B.ST 04

60 minute

100 year

Winter I+45%

4.500

3.916

1.153

0.000

7.157

1.004

B.ST 05

60 minute

100 year

Winter I+45%

4.500

3.914

1.190

0.000

7.339

1.005

B.ST 06

60 minute

100 year

Winter I+45%

4.500

3.912

1.240

0.000

8.635

1.006

B.SY HYDRO

60 minute

100 year

Winter I+45%

4.500

3.909

1.659

0.000

8.272

Half Drain Pipe

US/MH  
Name

Time  
(mins)

Flow  
(l/s)

Status

1.000

B.ST 01

8.7

SURCHARGED

1.001

B.ST 02

9.6

SURCHARGED

1.002

B.ST 03

9.3

SURCHARGED

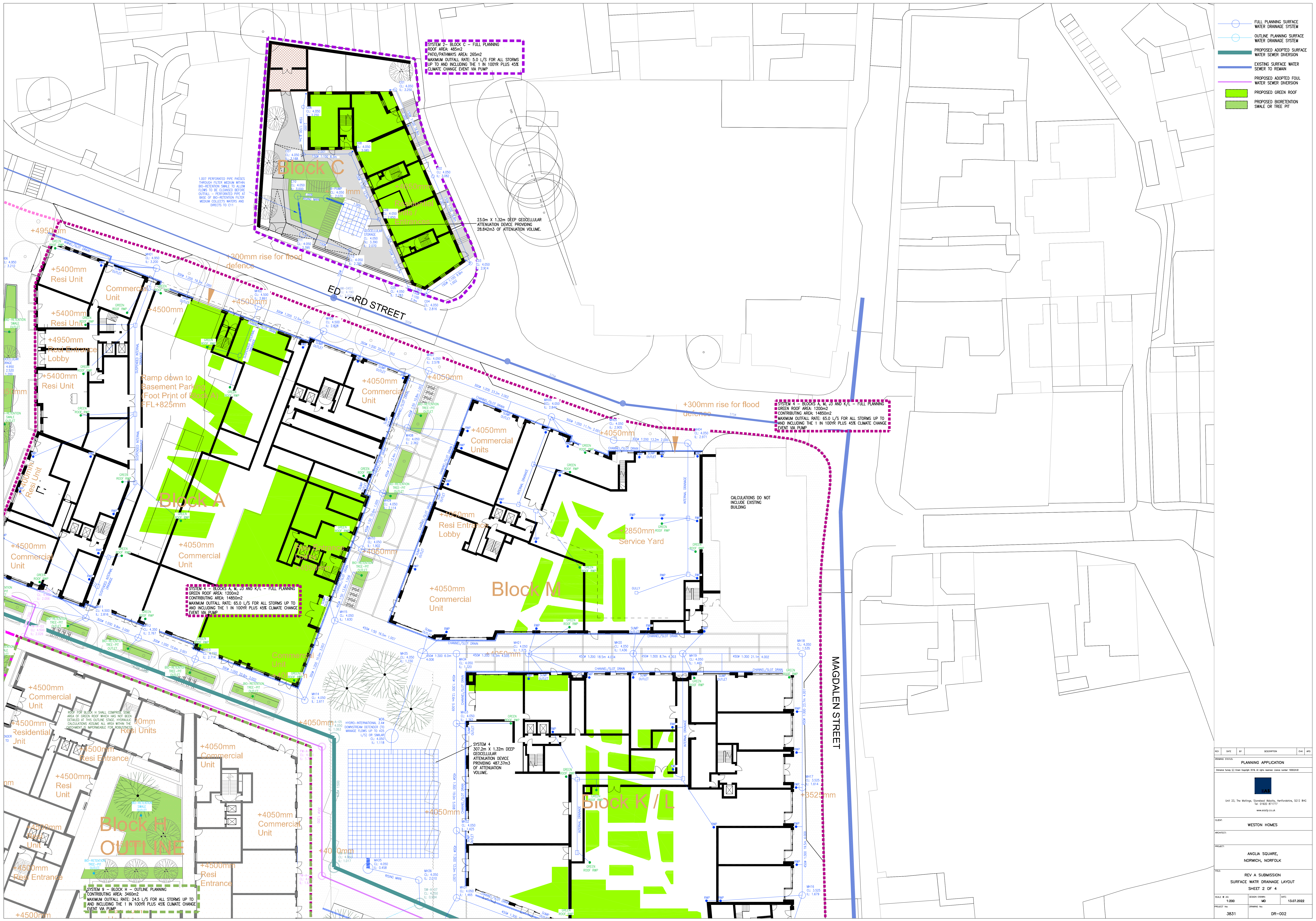
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| EAS Transport Planning                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                       | Page 11                                                                             |                       |               |                              |                       |        |       |         |  |      |            |       |         |  |      |            |       |         |  |      |            |       |            |  |     |            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------|-----------------------|---------------|------------------------------|-----------------------|--------|-------|---------|--|------|------------|-------|---------|--|------|------------|-------|---------|--|------|------------|-------|------------|--|-----|------------|
| Unit 23, The Maltings<br>Stanstead Abbotts<br>Hertfordshire, SG12 8HG                                                                                                                                                                                                                                                                                                                                                                                                              | BOTOLPH STREET<br>SW DRAINAGE NETWORK |  |                       |               |                              |                       |        |       |         |  |      |            |       |         |  |      |            |       |         |  |      |            |       |            |  |     |            |
| Date 14/07/2022 00:41<br>File 20220713-Boltolph Stree...                                                                                                                                                                                                                                                                                                                                                                                                                           | Designed by EAS<br>Checked by         |                                                                                     |                       |               |                              |                       |        |       |         |  |      |            |       |         |  |      |            |       |         |  |      |            |       |            |  |     |            |
| Innovyze                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Network 2020.1.3                      |                                                                                     |                       |               |                              |                       |        |       |         |  |      |            |       |         |  |      |            |       |         |  |      |            |       |            |  |     |            |
| <u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>                                                                                                                                                                                                                                                                                                                                                                                      |                                       |                                                                                     |                       |               |                              |                       |        |       |         |  |      |            |       |         |  |      |            |       |         |  |      |            |       |            |  |     |            |
| <table><tr><th>PN</th><th>US/MH<br/>Name</th><th>Half Drain<br/>Time<br/>(mins)</th><th>Pipe<br/>Flow<br/>(l/s)</th><th>Status</th></tr><tr><td>1.003</td><td>B.ST 04</td><td></td><td>11.6</td><td>SURCHARGED</td></tr><tr><td>1.004</td><td>B.ST 05</td><td></td><td>13.5</td><td>SURCHARGED</td></tr><tr><td>1.005</td><td>B.ST 06</td><td></td><td>15.7</td><td>SURCHARGED</td></tr><tr><td>1.006</td><td>B.SY HYDRO</td><td></td><td>9.8</td><td>SURCHARGED</td></tr></table> |                                       |                                                                                     | PN                    | US/MH<br>Name | Half Drain<br>Time<br>(mins) | Pipe<br>Flow<br>(l/s) | Status | 1.003 | B.ST 04 |  | 11.6 | SURCHARGED | 1.004 | B.ST 05 |  | 13.5 | SURCHARGED | 1.005 | B.ST 06 |  | 15.7 | SURCHARGED | 1.006 | B.SY HYDRO |  | 9.8 | SURCHARGED |
| PN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | US/MH<br>Name                         | Half Drain<br>Time<br>(mins)                                                        | Pipe<br>Flow<br>(l/s) | Status        |                              |                       |        |       |         |  |      |            |       |         |  |      |            |       |         |  |      |            |       |            |  |     |            |
| 1.003                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | B.ST 04                               |                                                                                     | 11.6                  | SURCHARGED    |                              |                       |        |       |         |  |      |            |       |         |  |      |            |       |         |  |      |            |       |            |  |     |            |
| 1.004                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | B.ST 05                               |                                                                                     | 13.5                  | SURCHARGED    |                              |                       |        |       |         |  |      |            |       |         |  |      |            |       |         |  |      |            |       |            |  |     |            |
| 1.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | B.ST 06                               |                                                                                     | 15.7                  | SURCHARGED    |                              |                       |        |       |         |  |      |            |       |         |  |      |            |       |         |  |      |            |       |            |  |     |            |
| 1.006                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | B.SY HYDRO                            |                                                                                     | 9.8                   | SURCHARGED    |                              |                       |        |       |         |  |      |            |       |         |  |      |            |       |         |  |      |            |       |            |  |     |            |
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## Appendix K – Surface Water Drainage Layout



|                                                                                                                                                                                                              |      |                      |             |                    |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------|-------------|--------------------|-----|
| REV                                                                                                                                                                                                          | DATE | BY                   | DESCRIPTION | CHK                | AMT |
| GENERAL STATUS                                                                                                                                                                                               |      |                      |             |                    |     |
| PLANNING APPLICATION                                                                                                                                                                                         |      |                      |             |                    |     |
| Database Survey (S) Open Gearing (S) In rights reserved. Class no: 1000242<br><div style="text-align: center;">  </div> |      |                      |             |                    |     |
| Unit 23, The Washings, Slimebank Abbotts, Haverthorpe, S112 8HG<br>Tel: 01929 817777<br>www.koorby.co.uk                                                                                                     |      |                      |             |                    |     |
| CLIENT                                                                                                                                                                                                       |      |                      |             |                    |     |
| WESTON HOMES                                                                                                                                                                                                 |      |                      |             |                    |     |
| PROJECT:                                                                                                                                                                                                     |      |                      |             |                    |     |
| PROJECT:                                                                                                                                                                                                     |      |                      |             |                    |     |
| ANGLIA SQUARE,<br>NORWICH, NORFOLK                                                                                                                                                                           |      |                      |             |                    |     |
| TITLE:                                                                                                                                                                                                       |      |                      |             |                    |     |
| REV A SUBMISSION<br>SURFACE WATER DRAINAGE LAYOUT<br>SHEET 1 OF 4                                                                                                                                            |      |                      |             |                    |     |
| SCALE 1:200                                                                                                                                                                                                  |      | DESIGN-DRAWN<br>MJD  |             | DATE<br>13.07.2002 |     |
| PROJECT NO<br>3631                                                                                                                                                                                           |      | DRAWING NO<br>DR-001 |             |                    |     |



- FULL PLANNING SURFACE WATER DRAINAGE SYSTEM
- OUTLINE PLANNING SURFACE WATER DRAINAGE SYSTEM
- PROPOSED ADOPTED SURFACE WATER SEWER DIVERSION
- EXISTING SURFACE WATER SEWER TO REMAIN
- PROPOSED ADOPTED FOUL WATER SEWER DIVERSION
- PROPOSED GREEN ROOF
- PROPOSED BIORETENTION SWALE OR TREE PIT

SYSTEM 2 - BLOCK C - FULL PLANNING  
ROOF AREA: 485m<sup>2</sup>  
PATIO/PATHWAYS AREA: 265m<sup>2</sup>  
MAXIMUM OUTFALL RATE: 5.0 L/S FOR ALL STORMS UP TO AND INCLUDING THE 1 IN 100YR PLUS 45% CLIMATE CHANGE EVENT VIA PUMP

SYSTEM 4 - BLOCKS A, M, J3 AND K/L - FULL PLANNING  
GREEN ROOF AREA: 1200m<sup>2</sup>  
CONTRIBUTING AREA: 14850m<sup>2</sup>  
MAXIMUM OUTFALL RATE: 65.0 L/S FOR ALL STORMS UP TO AND INCLUDING THE 1 IN 100YR PLUS 45% CLIMATE CHANGE EVENT VIA PUMP

SYSTEM 1 - BLOCKS A, M, J3 AND K/L - FULL PLANNING  
GREEN ROOF AREA: 1200m<sup>2</sup>  
CONTRIBUTING AREA: 14850m<sup>2</sup>  
MAXIMUM OUTFALL RATE: 65.0 L/S FOR ALL STORMS UP TO AND INCLUDING THE 1 IN 100YR PLUS 45% CLIMATE CHANGE EVENT VIA PUMP

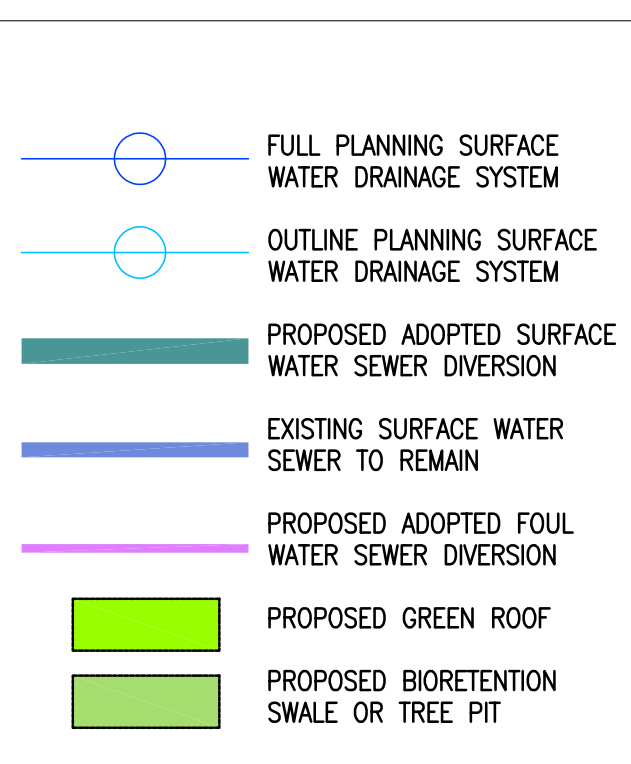
SYSTEM 9 - BLOCK H - OUTLINE PLANNING  
CONTRIBUTING AREA: 3480m<sup>2</sup>  
MAXIMUM OUTFALL RATE: 24.5 L/S FOR ALL STORMS UP TO AND INCLUDING THE 1 IN 100YR PLUS 45% CLIMATE CHANGE EVENT VIA PUMP

SYSTEM 4 - 307.2m X 1.32m DEEP GEOCELLULAR ATTENUATION DEVICE PROVIDING 487.37m<sup>3</sup> OF ATTENUATION VOLUME.

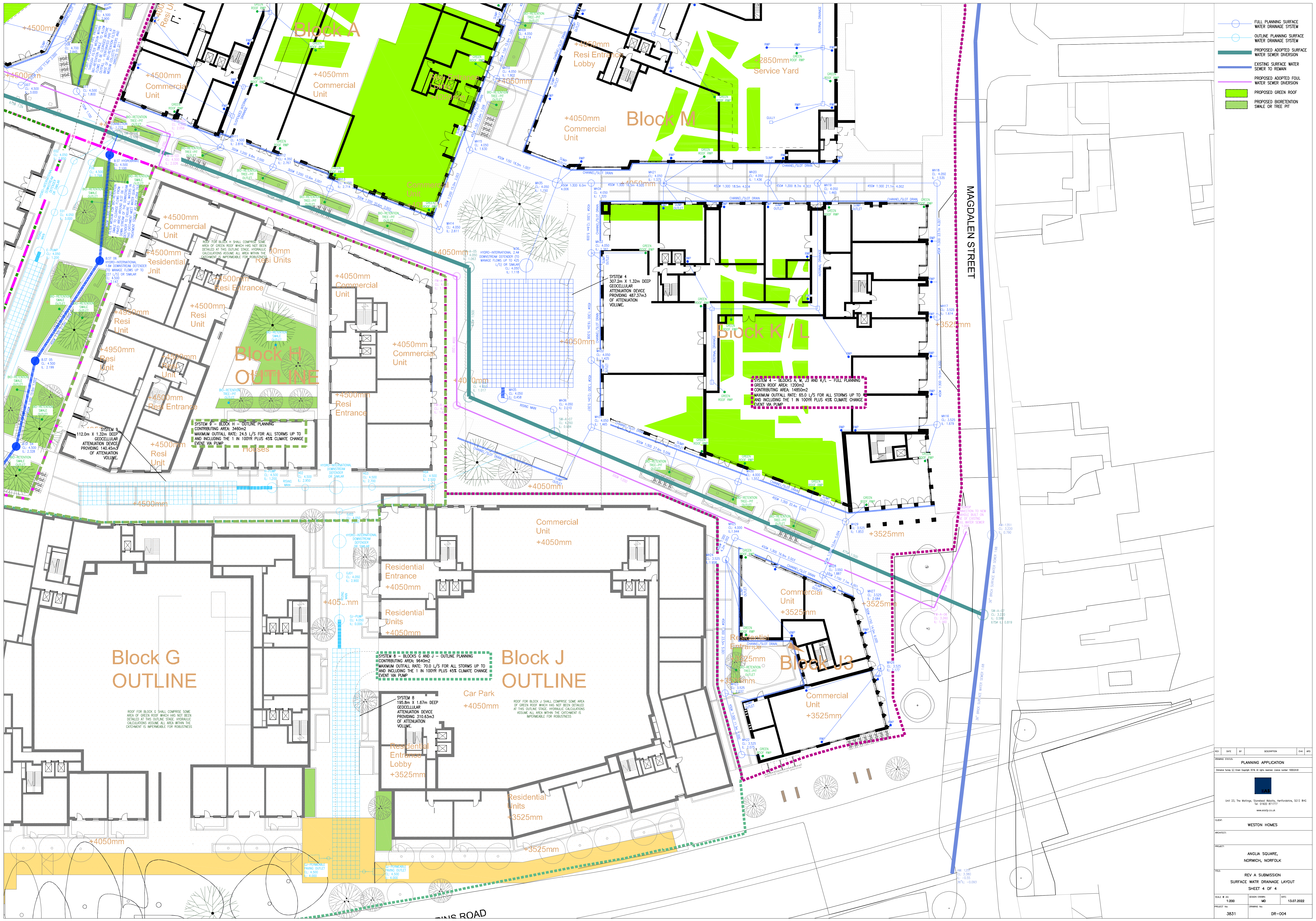
HYDRO-INTERNATIONAL 2.44 DOWNSTREAM DETENTION (TO MANAGE FLOWS UP TO 425 L/S) OR SWALE  
CL: 4.050  
IL: 1.118

CALCULATIONS DO NOT INCLUDE EXISTING BUILDING

|                                                                                                    |             |                  |             |    |     |
|----------------------------------------------------------------------------------------------------|-------------|------------------|-------------|----|-----|
| NO.                                                                                                | DATE        | BY               | DESCRIPTION | OK | APD |
| DRAWING STATUS: PLANNING APPLICATION                                                               |             |                  |             |    |     |
| Drawing Status: (S) Green Signage: (S)B, (S) Right: Internal: (S) Green: (S)B                      |             |                  |             |    |     |
|                                                                                                    |             |                  |             |    |     |
| Unit 23, The Maltings, Stamford, Leicestershire, LE12 5BQ<br>Tel: 01530 871777<br>www.westph.co.uk |             |                  |             |    |     |
| CLIENT: WESTON HOMES                                                                               |             |                  |             |    |     |
| PROJECT: ANGLIA SQUARE, NORWICH, NORFOLK                                                           |             |                  |             |    |     |
| TITLE: REV A SUBMISSION SURFACE WATER DRAINAGE LAYOUT SHEET 2 OF 4                                 |             |                  |             |    |     |
| SCALE: 1:200                                                                                       | DESIGN: DM  | DATE: 13.07.2022 |             |    |     |
| PROJECT NO: 3831                                                                                   | DRAWING NO: | DR-002           |             |    |     |



|                                                                                             |                       |             |                    |     |
|---------------------------------------------------------------------------------------------|-----------------------|-------------|--------------------|-----|
| DATE                                                                                        | BY                    | DESCRIPTION | OW                 | AMT |
| PLANNING APPLICATION                                                                        |                       |             |                    |     |
| Deduction Stamp (3) Open: Copyright 2018. All rights reserved. License number: 10000242     |                       |             |                    |     |
|        |                       |             |                    |     |
| UNIT 23, The Maltings, Stamford Street Abbeys, Hertfordshire, SG12 8HG<br>Tel: 01502 877777 |                       |             |                    |     |
| www.easfd.co.uk                                                                             |                       |             |                    |     |
| CLIENT<br><br>WESTON HOMES                                                                  |                       |             |                    |     |
| PROJECT:<br><br>PROJECT:<br><br>ANGLIA SQUARE,<br>NORWICH, NORFOLK                          |                       |             |                    |     |
| TITLE<br><br>REV A SUBMITTAL<br>SURFACE WATER DRAINAGE LAYOUT<br>SECTION 3 OF 4             |                       |             |                    |     |
| SCALE: 1:200                                                                                | DESIGN-DRAWN<br>BY    |             | DATE<br>13.07.2022 |     |
| PROJECT NO:<br>3831                                                                         | DRAWING NO:<br>DR-003 |             |                    |     |



- FULL PLANNING SURFACE WATER DRAINAGE SYSTEM
- OUTLINE PLANNING SURFACE WATER DRAINAGE SYSTEM
- PROPOSED ADOPTED SURFACE WATER SEWER DIVERSION
- EXISTING SURFACE WATER SEWER TO REMAIN
- PROPOSED ADOPTED FOUL WATER SEWER DIVERSION
- PROPOSED GREEN ROOF
- PROPOSED BIORETENTION SWALE OR TREE PIT

|                                                                                                                  |                    |                  |             |     |     |
|------------------------------------------------------------------------------------------------------------------|--------------------|------------------|-------------|-----|-----|
| NO.                                                                                                              | DATE               | BY               | DESCRIPTION | CHK | APP |
| DRAWING STATUS: PLANNING APPLICATION                                                                             |                    |                  |             |     |     |
| Drawing Name: G3 Green Drainage 2016, all rights reserved. Version number: 10000003                              |                    |                  |             |     |     |
|                                                                                                                  |                    |                  |             |     |     |
| Unit 23, The Watlings, Stanwood, Apleton, Northfriesland, S212 8HG<br>Tel: 01909 871777<br>www.westonhomes.co.uk |                    |                  |             |     |     |
| CLIENT: WESTON HOMES                                                                                             |                    |                  |             |     |     |
| PROJECT: ANGLIA SQUARE, NORWICH, NORFOLK                                                                         |                    |                  |             |     |     |
| TITLE: REV A SUBMISSION SURFACE WATER DRAINAGE LAYOUT SHEET 4 OF 4                                               |                    |                  |             |     |     |
| SCALE: @ A3: 1:200                                                                                               | DESIGN: DRAWS: MO  | DATE: 13.07.2022 |             |     |     |
| PROJECT NO: 3831                                                                                                 | DRAWING NO: DR-004 |                  |             |     |     |

## Appendix L – Anglian Water Diversion Information

**From:** Fewell Darren A <dFewell@anglianwater.co.uk>  
**Sent:** 17 May 2017 17:18  
**To:** Louisa Wade  
**Cc:** Doneghan Grace  
**Subject:** Proposed Retail Development - Anglia Square Norwich - Development in Close Proximity to Anglian Water Public Sewer Apparatus

Hi Louisa,

**Proposed Retail Development – Anglia Square Norwich – Development in Proximity to Anglian Water Public Sewer Apparatus**

Further to our detailed phone discussion this afternoon, regarding your overall scope of development proposed at the above site, I am (as requested) just dropping you a line to briefly clarify the main points of our discussion.

I trust this helps with the planning and early design stages Louisa, but if you need anything else then please come back to us and we will do our best to assist you.

- Any re-development areas falling within 3m of the existing public sewer apparatus, but remaining only '*built near*' the public sewers, and maintaining a similar level of clearance and access to that already enjoyed, would in principle be acceptable to us, subject to your clients satisfying themselves that the new foundation designs for the affected new buildings were specifically designed to avoid transferring loading onto the adjacent public sewer apparatus.
- Any areas falling within 3 metres would simply need to comply with usual Part H4 Building Regulations requirements in respect of 'Building Near' public sewer apparatus, and Anglian Water has published self-approval criteria on our website, but the principles of proceeding as outlined in my guidance above would in principle be satisfactory.
- So the designers for the new foundations would need to site survey the affected public sewers to make sure that when considering the relative invert depth of that affected sewer, and the clearance provided to the building structure, that no loading would be transferred on a 45 degree 'angle of repose' design principle.
- Based on drawing A03-P2-052 rev F 'Ground Floor Retail Plan', the only area that would appear to require direct *consideration* of formal diversion of our apparatus would be the existing 675mm dia SW public sewer, and the existing 225mm dia Foul public sewer that runs immediately south of unit A1.01 (675mm SWS Section close to SW MH's 0453 through to 0456 approx & 225mm FWS Section close to Foul MH's 0405 through to 0408).
- We discussed the principle of it being diverted clear of the retail units footprint but being designed to fall *centrally* within the remaining pedestrian access/walkway areas so that clearance is maximised on either side of the sewers to the buildings.
- This section of drainage could therefore be considered for diversion clear of the footprint of the new retail units, subject to full planning approval, and the correct application being made to Anglian Water under Section 185 of the Water Industry Act 1991, where upon the design would be considered on its individual design merits at that time, but I can confirm that the principle of us being prepared to consider such a diversion to keep the apparatus clear of the building footprint is established.
- The development around retail unit G1.03 would appear to suggest that it may result in a direct build over of our existing foul and surface water manholes/sewers that currently appear to run clear of the existing retail footprint.
- Anglian Water could consider formally divesting the affected sections of public sewer into your clients own private ownership under a Section 116 divesting notice, but they would need to apply to us as the 'owners' of the affected premises served by that drainage, and formally request it is divested into their own private ownership, and they would also need to demonstrate to us that there were no affected 3<sup>rd</sup> parties connected to the section of public sewer in question, that would otherwise be adversely affected by any proposal to remove (or make redundant) said affected section of public sewer, and they would need to show that the public sewer and its existing connections were *only serving* their own existing retail premises, and this would be done by detailed site survey of the existing drainage with follow up drainage drawings provided, and provision of a CCTV survey with all existing sewer connections identified to us in terms of what they serve and who owns those connections.
- Once a formal divesting was applied for, and we successfully reached a stage whereby we had approved the proposals, and had issued notice under Section 116, then at that point your clients could physically remove the offending sections of apparatus from the ground in order to allow the new building to be constructed without hindrance.

- The existing foul and surface water sewers shown as passing across your 'residential refuse' and 'retail refuse' areas between the Iceland store and retail unit G1.01, which link back towards Anglia Square, are mapped and recorded as '*private*' sewer apparatus and thus are still considered private apparatus accordingly, and Anglian Water would not have any further comment to make regarding any impact the development may have on that section of drainage as the apparatus is not considered to be Anglian Water owned, but any future development, and foundation design arrangements would obviously just need to take any reasonable design allowances and standard construction precautions to prevent risk of damage occurring.

I trust this summarises things but let us know if you need anything else,

Regards  
Darren Fewell  
Drainage Engineer  
Anglian Water Services Ltd

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## Appendix M – Anglian Water Sewer Flooding Email

## Marianna Dyason

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**From:** Marianna Dyason  
**Sent:** 11 July 2022 13:32  
**To:** Marianna Dyason  
**Subject:** FW: Sewer flooding record query

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**From:** Planning Liaison <[planningliaison@anglianwater.co.uk](mailto:planningliaison@anglianwater.co.uk)>  
**Sent:** 22 June 2022 08:06  
**To:** James Cahuzac <[james.cahuzac@eastp.co.uk](mailto:james.cahuzac@eastp.co.uk)>  
**Subject:** RE: Sewer flooding record query

Good morning James,

Thank you for your email.

We are no able to send over individual instances of flooding, as this is confidential information.

Anglian Water is able to confirm that there have been instances of flooding within the vicinity of the proposed development. It is also possible that other flooding may have occurred that we do not have records of, other organisations such as the Local Authority, Internal Drainage Board or the Environment Agency may have records. We recommend you submit a pre planning application form to enable Anglian Water to advise you of any suitable connection points for the proposed development and identify any mitigation that would be required. Further details including the application form can be found on our website.

Kind regards,  
Charlotte



**Pre-development Team**  
Team: 07929 786 955

**Anglian Water Services Limited**  
Thorpe Wood House, Thorpe Wood, Peterborough, Cambridgeshire, PE3 6WT



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**From:** James Cahuzac <[james.cahuzac@eastp.co.uk](mailto:james.cahuzac@eastp.co.uk)>  
**Sent:** 21 June 2022 11:55

To: Planning Liaison <[planningliaison@anglianwater.co.uk](mailto:planningliaison@anglianwater.co.uk)>  
Subject: Sewer flooding record query

**\*EXTERNAL MAIL\*** - Please be aware this mail is from an external sender - THINK BEFORE YOU CLICK

Dear Sir/Madam,

I am working on a project in Norwich at postcode NR3 1DY and there is a concern regarding sewer flood risk. Would it be possible to have the updated DG5 records for this area please?

Kind regards,  
James



**James Cahuzac**  
**Civil Engineer**  
Unit 23, The Maltings, Roydon Road, Stanstead Abbots, Hertfordshire, SG12 8HG  
Tel: 01920 871777  
Web: [www.eastp.co.uk](http://www.eastp.co.uk)

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