

AESC GIGA FACTORIES PLOT 2 - PLANNING

Drainage Strategy

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Acronyms and Abbreviations

COMAH	Control of Major Accident Hazards
DWF	Dry Weather Flow
EA	Environment Agency
FRA	Flood Risk Assessment
HGV	Heavy Goods Vehicle
HSE	Health and Safety Executive
IAMP	The International Advanced Manufacturing Park (IAMP) is a joint venture between Sunderland and South Tyneside Councils.
LLFA	Lead Local Flood Authority
NWL	Northumbrian Water Ltd.
rwp	Rainwater Pipe
SCC	Sunderland City Council
SuDS	Sustainable Drainage Systems

1 INTRODUCTION

This document provides the surface and foul water drainage strategy for the development of a Battery Manufacturing Facility (AESC Plant 3), Assembly & Warehousing building, AESC office HQ and a number of ancillary plant buildings on behalf of AESC at land off International Drive, Sunderland as indicated in Figure 1. The drainage strategy contained within adopts the principles and closely reflects the adjacent Planning approved design for Plant 2 / GIGA1. The contents of this report are to be read in conjunction with all supporting drawings and/or documents referenced herein, appended to this report or submitted in support of the relevant planning applications.

1.1 The Site

1.1.1 General

The Site has a total area of approximately 24.56 hectares contributing to the drainage system, which sits within the wider planning boundary. The existing site was previously undeveloped greenfield land and comprised agricultural land with hedge rows and tree planting within and along its boundaries. The Site is accessed via International Drive (to the east) that was constructed as part of and serves the IAMP One Development.

1.1.2 Location

The Site is located approximately 6.2km to the north-west of Sunderland, Ordnance Survey grid reference NZ332587 (E – 433018.233, N – 558855.583), and postcode SR5 3NS. The Site is bounded to the east by International Drive, to the south by the A1290 road and Nissan's factory and by farmlands to the north and west. The River Don and Usworth Burn pass to the north of The Site.

1.1.3 Topography

The majority of the land on which The Development is proposed mainly falls in the north-east directions, whilst the south-west corner falls in the south-east direction. This splits the existing site into two catchments which drain to the north-east and south-east, respectively.

The Site is relatively flat with the change in level across the site being approximately 3.5m over a distance of 0.8km.

The finished floor level (FFL) for the Factory Building and Warehouse Building are proposed at 39.000m AOD. (+/- 300mm).

1.1.4 Flood Risk

For matters relating to flood risk please refer to the Systra, *Flood Risk Assessment & Drainage Strategy Ref. 22A29 - R001*.

1.1.5 Geology & Ground Conditions

To date there has been no ground investigation or topographical survey carried out, these are subject to agreement. Based on the information received for the adjacent site (Plant 2 / GIGA 1) the ground conditions are assumed to be as follows.

The adjacent Site predominantly comprise Topsoil underlain by a variable thickness of Pelaw Clay which in turn is underlain by Pennine Middle Coal Measures Strata (Mudstone and sandstone). Localised pockets of Made Ground were identified in the area of the former farm buildings.

Shallow groundwater was not encountered except in one location where a level of approximately 1m below ground level was noted from the monitoring. Given the thickness of impermeable clay below the site and the lack of groundwater encountered during excavation in trial pits and drilling of boreholes generally, it is considered the resting groundwater level does not represent a continuous groundwater table below the sites, but likely reflects localised perched water in the granular layers of the Glacial Till draining into the monitoring instruments.

The adjacent site is located above a Secondary Aquifer relating to the Pennine Middle Coal Measures. These formations have a low permeability. The overlying Pelaw Clay and Glacial Till are classified as Unproductive Strata: These formations also have a low permeability.

The above ground conditions do not support infiltration drainage solutions for The Development, as discussed in the *Flood Risk Assessment & Drainage Strategy Ref. 22A29 - R001* by Systra.

For further details of ground conditions refer to *RPS 'Phase 1 Geo-environmental Desk Study and Preliminary Risk Assessment' ENV3-RPS-XX-XX-RP-G-314000*.

1.1.6 Existing Drainage Features

1.1.6.1 Surface Water Features

There are two watercourses within 1km of the site;

- River Don 300m to the north
- Usworth Burn which runs along the northern boundary.

The Site is crossed by a number of land drainage ditches which convey flows in different directions; the main falls across the site are towards the north-eastern boundary towards the Usworth Burn, for the southern part southwards towards A1290. An existing land drains crossing the site will be made largely redundant by the development.

There is a network of small ditches flowing towards the north of the site which continues beyond the sites northern edge and discharges into Usworth Burn about 540m upstream of the Burn's confluence with the River Don. The River Don continues to the east passing through Hylton Bridge nearby, eventually discharging to the River Tyne in Jarrow.

The south-western section of the land ostensibly drains to a low point south-west of the site. The above mentioned land drainage ditches may require diverting around the new boundary of the development to intercept /divert surface water runoff from the adjacent site. The details of this diversion are to be developed by others and to be agreed with SCC/LLFA.

If required, the new land drains will be directed around the site boundary to connect to the water courses to the north of the site. Land drainage is not within the scope of this document, will be subject to relevant license agreements and is to be developed by others in line with the FRA.

Refer to Appendix A for copy of the IAMP sewer 'As Built' record information.

1.1.6.2 Foul Water Features

Refer to Appendix A for copy of the IAMP sewer 'As Built' record information. Final connection details subject to ongoing discussion and agreement with IAMP and NWL.

1.2 The Development

The Development is for use of land 6.2km to the north-west of Sunderland (The Site) for the erection of a Battery Manufacturing Facility and associated functions, warehouse, car parking and landscaping.

The Battery Manufacturing and Assembly Facilities will principally include the following, as outlined on the Planning Drawings:

- A Factory Building (AESC Plant 3) with associated plant and office spaces. The AESC Plant 3 Building will be approximately 374m long by 230m wide. The ridge height of the proposed Factory Building will be approximately 30m metres above ground floor level with an eaves height of approximately 28m,
- Service yards located on two sides of the AESC Plant 3 Building providing a number of loading docks, level access doors and space for HGVs.
- Bulk Store Canopies and Sprinkler/Fire Water Tanks will be provided around the Factory building.
- Assembly and Warehousing building with associated plant and office spaces and service yards located on two sides providing a number of loading docks, level access doors and space for HGVs. The building will be approximately 267m long by 151m wide.
- AESC Office HQ building with an approximate plan area of 2250m².
- A security gatehouse.
- Car parking areas are to be located to the east of the AESC Plant 3 Building and south of the gatehouse. In addition, motorcycle and bicycle storage is provided.

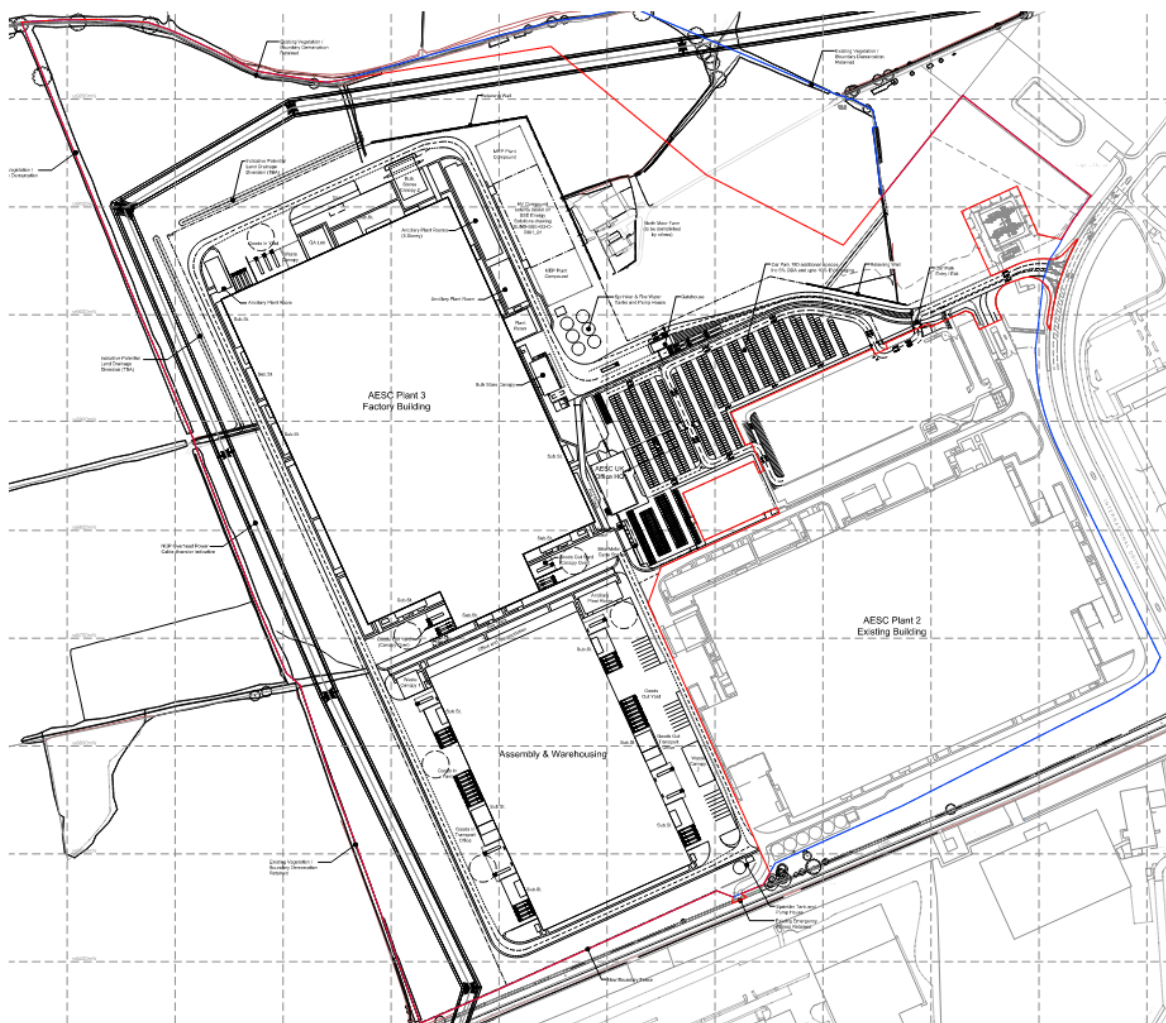


Figure 1 - Site Extents – Extract from drawing 201

1.3 Consultation

- Initial strategy discussions with the LLFA (29 June 2023).
- The Lead Local Flood Authority (LLFA) is Sunderland City Council (SCC).

1.4 Planning History

Relevant and readily available planning records for the site, as obtained from Sunderland City Council planning website are summarised as follows:

- **Approved planning application for the adjacent development:** 21/01764/HE4 Erection of industrial unit to be used for the manufacture of batteries for vehicles with ancillary office / welfare floorspace and associated infrastructure provision, accesses, parking, drainage and landscaping.

2 DRAINAGE STRATEGY

2.1 Surface Water Drainage Strategy

2.1.1 General

The surface water drainage strategy for the site will rely upon below ground gravity drainage networks to convey runoff to below ground attenuation tanks with a pumped outfall being required to lift water to the level of the outfall and to manage discharge from the site to greenfield runoff rates. The underlying clay soils on the site prohibit the use of infiltration to discharge surface water to ground therefore, it is necessary to discharge surface water run-off to watercourse. All run-off will be directed to the River Don via Usworth Burn to the north of the site. Proprietary treatment systems will be provided to treat the run-off to achieve the required water quality, in line with Chapter 12 CIRIA 753, prior to discharge to the above water course.

Surface level 'Green' SuDS features have been proposed where it is considered appropriate for this development. (The office building has a roof area of approximately 2250m² for which a green / blue roof solution is proposed).

The use of proprietary below ground SuDS features have generally been used in favour of Surface level 'Green' SuDS features for the following reasons:

1. Ground conditions prohibit infiltration.
2. Proprietary SuDS products can be maintained more effectively and safely. E.g., fines removal without extensive works disrupting manufacturing process and safe operation of the site.
3. Below ground products e.g., forecourt separators would be required for pollution prevention regardless therefore efficient to use in design.
4. COMAH site. Risk of 'Green' surface features becoming contaminated in an emergency spill event which would require extensive excavation and reconstruction works.

2.1.2 Site Catchment Areas

The site area is split into a number of catchments as shown below. The impermeable areas (roofs , roads etc) are further split into a number of Surface Water drainage networks as described in Section 2.1.3.

Table 1: Principal Drainage Catchments

Site Catchment	Area (Ha)	Sub-division	Area (Ha)	Principal Drainage Catchments	Area (Ha)	Drainage System
Site Boundary (Within wider planning boundary)	42.4	Undeveloped Areas	19.0	-	-	Existing/Diverted Land Drainage by others
		Developed Areas	24.6	Impermeable Areas	23.6	Network as described below
				Permeable Areas	1.0	Network as described below

2.1.3 Discharge Locations & Rates

It is proposed to drain the site to one outlet location to the northeast of the site at green field run off rates, to match the existing adjacent development discharge strategy. The site will be split into five smaller catchments to better focus the SuDS features upstream of the attenuation tank.

The site has a developed impermeable area of 24.6ha, however a section to the south of the site (approximately 4ha) has previously been allocated to drain to the IAMP sewer network beneath International Drive. Due to the adjacent ongoing development a suitable route to discharge this area to International Drive is no longer available. Therefore, it is proposed to drain this area to Usworth Burn. To mitigate against the additional catchment this area will not be considered when calculating permitted discharge rates so as not to increase discharge rates above existing green field. Discharge rates will be limited to reduced effective catchment area of 20.66ha.

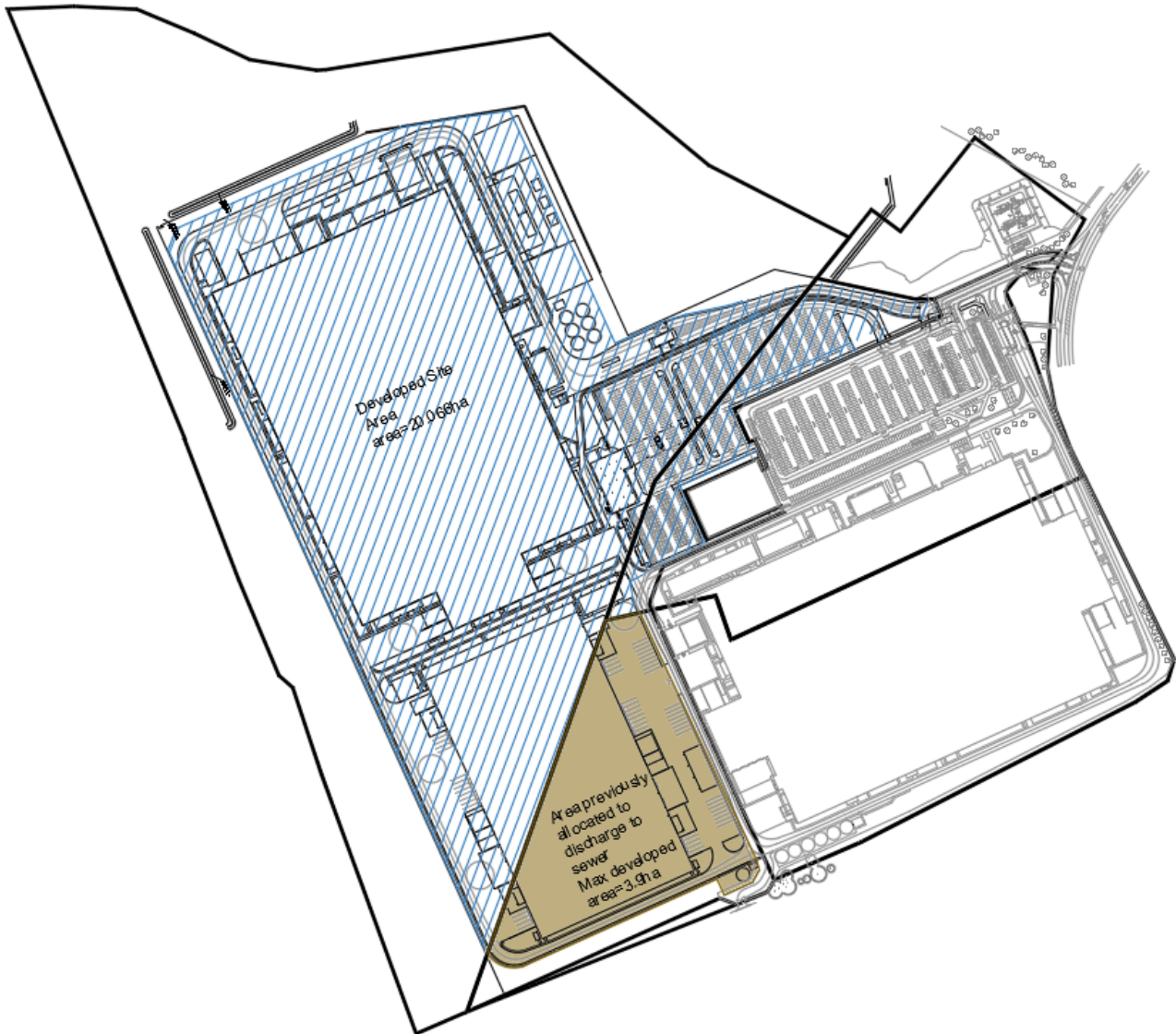


Figure 2 - Site Extents – Showing Developed catchment Areas.

2.1.3.1 Outfall 01

- Discharge Limits to the Usworth Burn via the existing land drainage ditch:
 - 3.3l/s/ha for 1-yr return period
 - 6.7l/s/ha for 30-yr return period
 - 8.0l/s/ha for 100yr return period +45% Climate Change allowance
 - Surcharged outfall for 100-yrCC fluvial flood for 12-hours of 35.80mOD when assessing the 100-yr+45%CC rainfall event.
- Adjusted developed catchment area = 20.66ha (Roofs, circulation roads, hardstanding areas & car park) discharged towards Outfall1 via pump(s) at following rates:
 - 68.2l/s for 1in1yrs storm event
 - 138.4l/s for 1in30yrs storm event
 - 165.3l/s for 1in100yrs+45%CC

2.1.3.2 Surface Water Pumping Requirements

In addition to the required pump rates above, the pump stations will be provided with the following as outlined on RPS Drawing 251.

- Duty and standby pump arrangements in pump stations.
- Variable pump rates will be required (i.e., duty, standby and assist).
- Pumps linked to BMS/Gatehouse for remote shut down in emergencies.
- Resilience requirements:
 - Backup power supply to be provided for pump stations/ provision for standby generators to be brought to site in event of power outage.
 - Duty & Standby Pump arrangement to be provided.
 - Additional 125m³ of attenuation is to be provided within the attenuation tank in the event of pump failure.

2.1.4 Surface Water Sub-catchments

2.1.4.1 AEC Plant 3 Building and Assembly & Warehousing

The roof of the AEC Plant 3 and Assembly & Warehousing Buildings will be drained via a combination of above ground gravity and siphonic drainage systems to the building eaves. These systems will discharge to an underground surface water drainage network that conveys the roof drainage via a gravity pipe network. The underground network will arrive at a number of vortex separators for water quality treatment before entering a surface water attenuation tank (ATT01) which is beneath the site main car park. From the attenuation tanks the surface water drainage will pass through a final Vortex separator for further water quality treatment prior to being pumped (SW Pump 01) to Surface Water Outfall 01 to the watercourse at the Northeastern side of the site.

2.1.4.2 Ancillary Buildings

The roofs of the various ancillary buildings are to be drained via aboveground gravity drainage systems of gutters and rainwater pipes (rwp) to the building elevations. These rwp's discharge to the same underground surface water networks described above for the AEC Plant 3 and Assembly & Warehousing Buildings, upstream of the vortex separators and the attenuation tank.

2.1.4.3 AESC Office HQ Building

The roof of the office building is to have a Green/Blue roof construction, subject to specialist's details and design, to provide Interception and attenuate runoff for a catchment area of approximately 2250m², then drained via above ground gravity drainage systems of rainwater pipes (rwp) to the building elevations. These rwp's discharge to the same underground surface water network downstream of the vortex separators, with the green roof system having provided quality treatment, then continues onto the attenuation tank described above for the AEC Plant 3 and Assembly & Warehousing Buildings.

2.1.4.4 Concrete Hardstandings and Circulation Roads

Surface water from concrete hardstandings and circulation roads located at various locations around the Site e.g., Goods In and Goods Out Yards, Pack & Warehouse will be drained using linear drains (slot, channel or kerb drains) at low points in the hardstanding areas. These linear drains will discharge into the underground surface water network that conveys the drainage to a full retention interceptor before entering the attenuation tank downstream of the vortex separator (which intercept the roof drainage). From the attenuation tank the surface water drainage will pass through a Vortex separator for further water quality treatment prior to being pumped (SW Pump 01) to Surface Water Outfall 01 to the watercourse at the eastern side of the site.

2.1.4.5 Car Park and Access Road

The surface water from the car park and access road up to the gate house area located to the east of the main buildings, will be drained using linear drains (slot, channel or kerb drains) at low points. The underground network will arrive at a by-pass interceptor prior to entering the attenuation tank. From the attenuation tank the surface water drainage will pass through a Vortex separator for further water quality treatment prior to being pumped (SW Pump 01) to Surface Water Outfall 01 to the watercourse at the eastern side of the site.

2.1.5 Soft Landscaped Areas

The area to the north of the car park is to be reprofiled to maintain the existing fluvial flooding of the river Don Flood Zone 2. This area will be drained into the diverted land drainage ditch and remaining existing ditch to the north of the site.

For more detail on matters relating to flood zones and flood risk please refer to the Systra, *Flood Risk Assessment & Drainage Strategy Ref. 22A29 - R001*.

2.1.6 Surface Water Discharge Consents/Approvals

In line with initial consultation with the LLFA discharge limits have been based on IAMP discharge limits for the adjacent plot, final discharge rate and volume consents subject to final agreement by the LLFA.

2.2 SuDS Strategy

2.2.1.1 Water Quantity

Discharge from site will be managed to greenfield run-off rates as described in Section 2.1.3 'Discharge Location & Rates'.

Due to the reasons indicated in Section 2.1.1 it is generally not feasible to retain the first 5mm of rainfall on site. Where practicable the impermeable surface areas have been kept to a minimum and where appropriate (e.g., AESC Office HQ roof) surfacing suitable to provide interception has been incorporated. A wide vegetative landscaping belt has been provided to the south, west and northern boundary. Gravel landscaped areas have also been provided.

2.2.1.2 Water Quality

A water quality risk assessment has been carried out using the SuDS hazard mitigation indices in accordance with Chapter 26, of the *CIRIA C753 SuDS Manual*, 'Simple index' approach. Under this method of assessment there are principally two land use classifications to consider for the proposed development being "Medium" for delivery yard & car parking areas and "Low" encompassing both roof areas and the plot access road, with localised areas classified 'High' hazard.

Generally proprietary treatment systems in the form of vortex separators & oil / petrol interceptor units will be utilised to mitigate the pollution from the identified land use classifications. The following tables demonstrate that the SuDS Mitigation indices provided by the features exceed that of the associated minimum pollution hazard index for each area.

For proprietary products, the unit mitigation indices are based on information provided by the manufacturers which can be found in Appendix C.

- **Building roofs** are categorised as low risk.
- **Circulation road around the site and Hardstandings**
 - Normally considered medium risk areas only, therefore mitigation is to be provided to suit the anticipated maximum TSS and Metals pollution for medium risk area.
 - High risk category is applied to limited areas for fuel delivery only, requiring enhanced hydrocarbon pollution mitigation. In addition, the fuel delivery areas will be drained through a forecourt separator (full retention interceptor).
- **Car Parking** is to be categorised as medium risk.
- **Access road** adjacent to the gatehouse is treated as high risk due to all HGV's being required to stop at the gatehouse prior to entering the site.
- **Chemical Delivery Areas** are under canopies to protect from rain and are isolated bunded areas which drain to captive tanks to prevent any risk of spillage entering the drainage networks. i.e., the highest chemical risk areas are not drained via the drainage systems, any liquid within these bands will be subject to chemical testing and appropriate waste disposal. and hydrocarbon delivered are mitigated appropriately.

DRAINAGE STRATEGY

Table 2: Pollution Mitigation Indices – Building Roofs

	Pollution Hazard	SuDS Component	TSS	Metals	Hydrocarbons
Target Pollution Hazard Indices	Low	-	0.3	0.4	0.05
Proposed SuDS mitigation I ₁		Vortex Separator	0.5	0.4	0.8
Proposed SuDS mitigation I ₂		Vortex Separator	0.5	0.4	0.8
Total SuDS mitigation (I ₁ +0.5xI ₂)			0.75	0.6	1.2

Table 3: Pollution Mitigation Indices – Office Building Roof (Green Roof)

	Pollution Hazard	SuDS Component	TSS	Metals	Hydrocarbons
Target Pollution Hazard Indices	Low	-	0.3	0.4	0.05
Proposed SuDS mitigation I ₁		Green Roof	0.8	0.7	0.9
Proposed SuDS mitigation I ₂		Vortex Separator	0.5	0.4	0.8
Total SuDS mitigation (I ₁ +0.5xI ₂)			1.05	0.9	1.3

Table 4: Pollution Mitigation Indices – Circulation Roads around the site and Hardstanding Areas

	Pollution Hazard	SuDS Component	TSS	Metals	Hydrocarbons
Target Pollution Hazard Indices	Medium	-	0.7	0.6	0.9*
Proposed SuDS mitigation I ₁		Full Retention Interceptor	0.8	0.6	0.99
Proposed SuDS mitigation I ₂		Vortex Separator	0.5	0.4	0.8
Total SuDS mitigation (I ₁ +0.5xI ₂)			1.05	0.8	1.39

Table 5: Pollution Mitigation Indices – Circulation Roads around the site and Hardstanding (Fuel delivery) Areas

	Pollution Hazard	SuDS Component	TSS	Metals	Hydrocarbons
Target Pollution Hazard Indices	High	-	0.7	0.6	0.9*
Proposed SuDS mitigation I ₁		Full Retention Interceptor	0.8	0.6	0.99
Proposed SuDS mitigation I ₂		Vortex Separator	0.5	0.4	0.8
Total SuDS mitigation (I ₁ +0.5xI ₂)			1.05	0.8	1.39

DRAINAGE STRATEGY

Table 6: Pollution Mitigation Indices – Car parking

	Pollution Hazard	SuDS Component	TSS	Metals	Hydrocarbons
Target Pollution Hazard Indices	Medium	-	0.7	0.6	0.7
Proposed SuDS mitigation I ₁		By-Pass interceptor	0.8	0.6	0.9
Proposed SuDS mitigation I ₂		Vortex Separator	0.5	0.4	0.8
Total SuDS mitigation (I ₁ +0.5xI ₂)			1.05	0.8	1.3

Table 7: Pollution Mitigation Indices – Access Road (Site Entrance)

	Pollution Hazard	SuDS Component	TSS	Metals	Hydrocarbons
Target Pollution Hazard Indices	High	-	0.8	0.8	0.9
Proposed SuDS mitigation I ₁	-	By-Pass interceptor	0.8	0.6	0.9
Proposed SuDS mitigation I ₂	-	Vortex Separator	0.5	0.4	0.8
Total SuDS mitigation (I ₁ +0.5xI ₂)	-	-	1.05	0.8	1.3

2.3 Pollution Prevention

The overall pollution prevention strategy will be subject to relevant and ongoing discussions between AESC and the HSE relating to COMAH requirements for the development.

The intention for the site wide surface water drainage system is to drain to the nearby watercourse. Pollution control devices will be provided upstream of the attenuation tanks to allow isolation of these for maintenance and closure should the system become contaminated. The outfall from this system will be controlled by pumps linked to the sitewide building management/fire alarm systems allowing for remote shut down to stop discharge from the site in the event of fire or other pollution incident. Hardstandings, circulation routes and delivery areas around the building, will be treated via petrol interceptors before being attenuated and then passing through a vortex separator prior to discharging to the water course via a pump. A number of pollution control devices will be provided on this network to allow any localised pollution incidents to be contained. The car park will be treated via a petrol interceptor and attenuated prior to passing through the vortex separator and discharged via a pump to the watercourse.

The Bulk Stores Canopy areas are covered by canopies to intercept rainfall which is then drained to the surface water network. Internally this area will be bunded and laid to falls to a captive drain and sump. In the event of a spillage the liquid will be pumped out into a waste tanker for testing and appropriate waste removal / disposal. No direct connection to a drainage network is provided from the internal area.

Pollution control devices adjacent to delivery / stores areas are to be capable of manual operation and automated remote operation, final details of this operation are subject to the overall pollution prevention strategy by AESC.

2.3.1.1 Fire Water Drainage

Firefighting water storage requirements are to be agreed with the local authority. The surface and foul water systems can be shut down in the event of a fire to prevent firefighting water from leaving the site. Additional dedicated below ground storage tanks may be required to store firefighting water subject to agreement with the local authority.

In the event of a fire, contaminated firefighting water will be captured primarily by the surface water drainage system serving the external roads and pavements and also by the foul water drainage systems and will be prevented from discharging from the site. Pollution control devices will be provided on both the surface and foul water drainage systems to stop the discharge of firefighting water and thus prevent contamination of the Usworth Burn and the public sewers. In addition, the pump stations will be linked to and automatically shut down by the building management system / fire alarm system to prevent inundating the outfalls and to contain contaminated water within the drainage network. The firefighting water can then be pumped out of the below ground drainage systems by tankers and disposed of appropriately. The perimeter roads around the site are kerbed to contain run-off within the site boundary.

Based on discussions with the local Fire Brigade and Building Control, it is understood that the Fire Brigade will liaise directly with the EA in the event of a fire incident regarding any further incident specific measures to be put in place.

2.4 Foul Water Drainage Strategy

2.4.1.1 AESC Plant 3 Building

The domestic wastewater from toilets and associated sinks etc. within the building will be drained via a belowground gravity foul water drainage system to the to a point near the gate house and then pumped to the eastern boundary of the site adjacent to an existing outfall connection to the IAMP foul sewer network below International Drive.

Various condensate drains and sprinkler system test points etc. associated with plant and equipment within the building drain to the same below ground gravity system as the domestic waste described above. Internal foul drainage layout is subject to ongoing process layout design.

2.4.1.2 AESC Office HQ Building

The domestic wastewater from toilets and associated sinks etc. within the building will be drained via the same belowground gravity foul water drainage system as described above.

2.4.1.3 Ancillary Buildings

The gatehouse will be provided with a connection to the foul water drainage network for the domestic appliances contained therein.

The sprinkler tank pump house will be provided with a gulley draining to the foul water drainage network in the event part of the sprinkler system requires draining. Any such discharge to be controlled to prevent inundating the public sewer.

The Bulk Stores (Canopies) will be isolated from the foul drainage network and any waste within these areas will be dealt with as described in the 'Pollution Prevention' section above.

2.4.1.4 Assembly & Warehousing

The domestic wastewater from toilets and associated sinks etc. within the building will be drained via the same belowground gravity foul water drainage system as described above for the AESC Plant 3 building.

Internal foul drainage layout is subject to ongoing MEP design.

2.4.1.5 Trade Effluent Drainage

Requirements for trade effluent discharge/licensing/monitoring (if any) are understood to be subject to ongoing discussions between AESC and Northumbrian Water Ltd.

3 DESIGN CONSTRAINTS / PARAMETERS

3.1 Surface Water Design Constraints

Following liaison with between Systra and the LLFA as part of the previously approved planning submission, constraints placed on the surface water drainage design for the adjacent Battery Manufacturing Facility have been determined as follows:

- Proposed discharge from the site has been restricted to green field run off rates. (3.3 l/s/ha for 1-year, 6.7 l/s/ha for 30-yr & 8.0 l/s/ha for 100-yr+45%CC in line with North-East Lead Local Flood Authorities latest advise.
- Discharge will be to one outlet point, the drainage ditch to the northeast of the site (Outfall 01).
- Effective catchment area for the site has been reduced to 20.66ha see Section 2.1.3 explanation.
- Below ground attenuation is to be provided onsite to allow run off to be restricted to the above rates. These proposed discharge rates have been discussed but are still subject to formal approval by the LLFA (See Section 1.4).
- The surface water drainage networks have been designed using the Flood Studies Report (FSR) rainfall data.
- The soils present on site are not suitable for the use of soakaways to discharge surface water via infiltration. Therefore, it is necessary to discharge surface water from the Battery Manufacturing Facility via gravity (following pumping to lift drainage), as discussed in detail within the *Flood Risk Assessment & Drainage Strategy Ref. 22A29 - R001* by Systra.
- SuDS features have been incorporated as appropriate to the facility in the drainage solution.
- In line with the 'Flood Modelling report,' the outfall may become surcharged in certain events. To account for this the outfall has been modelled as surcharged during the 1:100+45%cc events to ensure any potential flooding that could be generated as a result of a surcharged outfall is contained within the site.
- The surface water drainage design has been carried out in accordance with:
 - BS EN 752:2017 Drain and sewer systems outside buildings - Sewer system management;
 - Ciria C753 'The SuDS Manual';
 - Sewerage Sector Guidance Appendix C (SFA) Design and Construction Guidance for foul and surface water sewers offered for adoption under the Code for adoption agreements for water and sewerage companies operating wholly or mainly in England ("the Code");
 - The Building Regulations 2010 - Approved Document H 2015 – Drainage and Waste Disposal and:
 - Any additional requirements set out by SMBC as LLFA through the previously approved planning process.
 - North-East Lead Local Flood Authorities Sustainable Drainage Local Standards 2020.

3.2 Surface Water Drainage Design Calculations

3.2.1 Global Variables

The following global variables have informed the hydraulic modelling;

- FSR Rainfall - M5-60: 18.300; Ratio R: 0.350
- CV (proportion of rainfall forming surface water runoff): 1.00 for summer and winter.
 - Due the variable nature of different sub-catchments within the development each sub-catchment has been considered on its own basis and an appropriate percentage impermeable area (PIMP) attributed to the area in the microdrainage model. See table 6 below.
- Return Periods (years): 1in1, 1in30 & 1in100.
- Climate change: rainfall profiles increased by 45% for 100-year return period.
- Storm Durations (mins): 15, 30, 60, 120, 240, 360.
- Minimum velocity at pipe full flow for self-cleansing = 0.75 m/s (private drainage).
- Pipe Roughness value (ks) = 0.6mm.
- Global time of entry: 5 minutes to impermeable surfacing generally; 3 minutes to roofs (gravity and symphonic systems)
- Maximum total allowable discharge rate: as noted below in Table 7.

Table 8: Summary of Site Green Field Discharge Rates & Storm Return Periods by Network

Network	Impermeable Area (Ha)	1 in 1 year storm	1 in 30 year storm	1 in 100 year Storm
Network 01 - Site	20.66	68.2/s	138.4/s	165.3l/s

Table 9: Percentage Impervious areas / Runoff Coefficients

Area	Percentage Impervious (Run-off Coefficients)
Roofs	100 (1.0)
Access Roads & Car Park	90 (0.9)
Concrete Hardstandings	95 (0.95)
Office Roof	90 (0.9)

3.2.2 Design Criteria

The site drainage system has been designed to achieve the following objectives.

- 1in1 year – No surcharging of the facility surface water drainage system,
- 1in30 year – No flooding of facility surface water drainage system,
- 1in100 year + 45% Climate change – Surface water flooding is to be controlled on site and limited to a maximum depth of 350mm in the service yards and 125mm in car park areas. Refer to RPS drawing 257 for ‘Proposed Site Surface Water Drainage Exceedance Plan’ for illustration of maximum anticipated flooding.

3.2.3 Hydraulic Modelling

The surface water drainage system serving the site has been designed using InnoVyzze MicroDrainage analysis software. The drainage system has been designed in accordance with the *CIRIA SuDS Manual C753* and national guidance to prevent uncontrolled flooding of the site and surrounding areas. MicroDrainage calculations and results demonstrating compliance to the design criteria above are included in Appendix D.

3.2.4 Element Designs

In addition to the global hydraulic model referred to above, detailed design calculations for specific elements, for example linear drainage products and pump station, will be considered during detailed design.

3.3 Foul Water Design Considerations

The foul water drainage system has been designed in accordance with the frequency factors and discharge units set out in BS EN 12056-2:2000, 'Gravity drainage systems inside buildings – Part 2: Sanitary pipework, layout and calculation'. The network will accommodate foul water discharge from all welfare sanitaryware facilities, hand washing facilities and plant areas as required.

The maximum discharge rates have been taken from *IAMP Site 1 2 - Discharge limits*. These are as follows:

- Project maximum discharge rates: Allowable DWF = 0.14l/s/ha. Allowable peak = 0.92l/s/ha.
- Developed site area 24.6ha. Allowable DWF = 3.33l/s max. Allowable peak = 22.63l/s

Foul water flows will be discharged via a gravity outfall connecting into an existing spur connection, location based on the IAMP services 'As Built' record drawings.

Discharge design flows have at this stage only been based on domestic flows only and targeted allowance has been made for process and MEP drainage requirements. Locations, discharge volumes, rates, composition, storage, tanking and treatment requirements of MEP requirements are subject to further design development of the systems. Discussions are understood to be ongoing between Envision and Northumbrian Water Ltd regarding permissible discharge of process related foul water.

Reference should be made to RPS drawing 254, 255 & 256 '*Proposed Foul Drainage Layout*'.

Further discussion on the wider IAMP and NWL foul sewer networks can be found in the *Systra Flood Risk Assessment & Drainage Strategy Ref. 22A29 - R001*.

3.4 Foul Water Drainage Design Calculations

3.4.1 Building occupancy numbers

Domestic foul flows have been determined based on the following staffing levels provided by AESC.

- AESC Office HQ staff (8 hour day shift only): 200max.
- Assembly & Warehousing staff: 180max.
- AESC Plant 3: 1120 total/day (x57.6%) 646max.
- Total number of staff per day = 1026

3.4.2 Domestic foul drainage design flows

3.4.2.1 Domestic Daily Flow

Domestic foul drainage design capacity calculation based on British Water Code of Practice (Flows and Loads – 4)

- DWF = No. of staff x Daily flow per person
- Daily Flow Per person = 100l/day for a building with canteens
- DWF = (Domestic only average flow rate) 1.19l/s = 102.6m³ / day

3.4.2.2 Domestic Peak Flow rate

Domestic foul drainage design calculation to BS EN 12056 (for peak flow rate)

- Discharge Units: System I
- Frequency factor (K): 0.5 (showers 0.7)

Table 10: Domestic Foul Water Appliances and Discharge Units

Appliance	Amount			DU	DU Total
	Factory	Office	Warehouse		
Wash basin / Cleaner sink	22	28	10	0.5	30
Shower without plug	10	4	4	0.6	10.8
Urinal with flushing valve	10	12	7	0.5	14.5
Kitchen sink	4	8	3	0.8	12
WC with 6,0 l cistern	22	28	10	2.0	120
Total					187.3

- $Q_{ww} = K \sqrt{\sum DU} = (0.7\sqrt{10.8}) + (0.5\sqrt{176.5}) = 2.3+6.64 = 8.94\text{l/s}$ (Domestic only peak flow)

4 MAINTENANCE

4.1 Outline Maintenance Requirements

The maintenance for all plot specific drainage infrastructure will be the responsibility of AESC for the proposed development. The maintenance requirements for the various drainage features will generally be in line with The *SuDS Manual* and *Sewerage Sector Guidance* and any specific maintenance requirements of any proprietary products as specified by the relevant manufacturers.

All interceptors will be fitted with high and low level silt/oil alarms linked to the Building Management System or local alarms to alert the facilities management team that maintenance is required to empty the interceptor / treatment plant. Details of the maintenance activities for the constructed drainage infrastructure will be passed to the end user as part of an Operation and Maintenance manual post completion. The final and exact maintenance requirements will be determined through detailed design and production of the site wide O&M Manual.

Anticipated maintenance activities and schedule can be found in Table 9.

Table 11: Indicative Maintenance Activities (Subject to manufacturers requirements)

Typical Maintenance Activities			
Element	Access Method	Method of Maintenance	Minimum Frequency Required
Green Roofs	Via provided roof access method.	<p>Refer to The SuDS Manual C753 Chapter 12 Table 12.5</p> <p>Inspect all components including soil substrate, vegetation, drains, irrigation systems (if applicable), membranes and roof structure for proper operation, integrity of waterproofing and structural stability.</p> <p>Inspect drain inlets to ensure unrestricted runoff from the drainage layer to the conveyance or roof drain system.</p>	<p>Annually and after severe Storms</p>
		<p>Remove debris and litter to prevent clogging of inlet drains and interference with plant growth.</p> <p>Replace dead plants as required.</p> <p>Remove fallen leaves and debris from deciduous plant foliage.</p> <p>Remove nuisance and invasive vegetation, including weeds.</p> <p>Mow grasses, prune shrubs and manage other planting (if appropriate) as required</p>	<p>Six monthly and annually or as required</p>
Roof Gutters	Via provided roof access method.	General cleaning of gutters. Jet cleaning where required.	Periodic inspection of gutters to ensure rainwater outlets do not become blocked. Periodic renewal of gutter coatings to prevent corrosion.
Oil / Petrol Separators	In accordance with health and safety regulations and confined spaces requirements.	Refer to manufacturer's guidance, allow for advanced cordoning off of localised car parking areas, where required.	Six monthly inspection and emptying as required.
Channel Drains / Kerb Drains	In accordance with health and safety regulations.	Monitored to ensure no blockages develop. Jet cleaning.	Six monthly inspection and plus before and after severe storm events. Emptying as required.
Pumps	In accordance with health and safety regulations and confined spaces requirements.	Monitored via visual and audible alarms in development gatehouse to ensure no blockages develop in accordance with the manufacturer's recommendations.	Six monthly inspection or in accordance with the manufacturers recommendations, whichever occurs sooner.
Silt-traps and Gullies	In accordance with health and safety regulations.	Monitored to ensure no blockages develop.	Six monthly inspection and clearance of all silt traps and gullies as required.
Attenuation Tanks	In accordance with health and safety regulations and confined spaces requirements.	Refer to manufacturer's guidance.	Six monthly inspection or in accordance with the manufacturers recommendations, whichever occurs sooner
Penstock Valves	In accordance with health and safety regulations and confined spaces requirements.	Refer to manufacturer's guidance.	Six monthly inspection
Vortex Separator	In accordance with health and safety regulations and confined spaces requirements.	Refer to manufacturer's guidance.	Six monthly inspection and emptying as required.

5 REFERENCES

5.1 British Standards

- BS EN 752:2017 Drain and sewer systems outside buildings - Sewer system management
- BS EN 12056-2:2000 Gravity drainage systems inside buildings – Part 2: Sanitary pipework, layout and calculations

5.2 Other Design Guides

- CIRIA SuDS Manual C753
- British Water – Code of Practice - Flows and Loads – 4; Sizing Criteria, Treatment Capacity for Sewage Treatment Systems
- Water UK - Sewerage Sector Guidance – Approved Documents
- LASOO - Non-Statutory Technical Standards for Sustainable Drainage

5.3 Building Regulations

- Building Regulations 2010: Approved Documents H - Drainage and waste disposal

5.4 LLFA Guidance

- North-East Lead Local Flood Authorities Sustainable Drainage Local Standards 2020
- Sunderland City Council Level 1 Strategic Flood Risk Assessment 2018

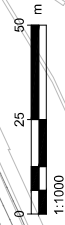
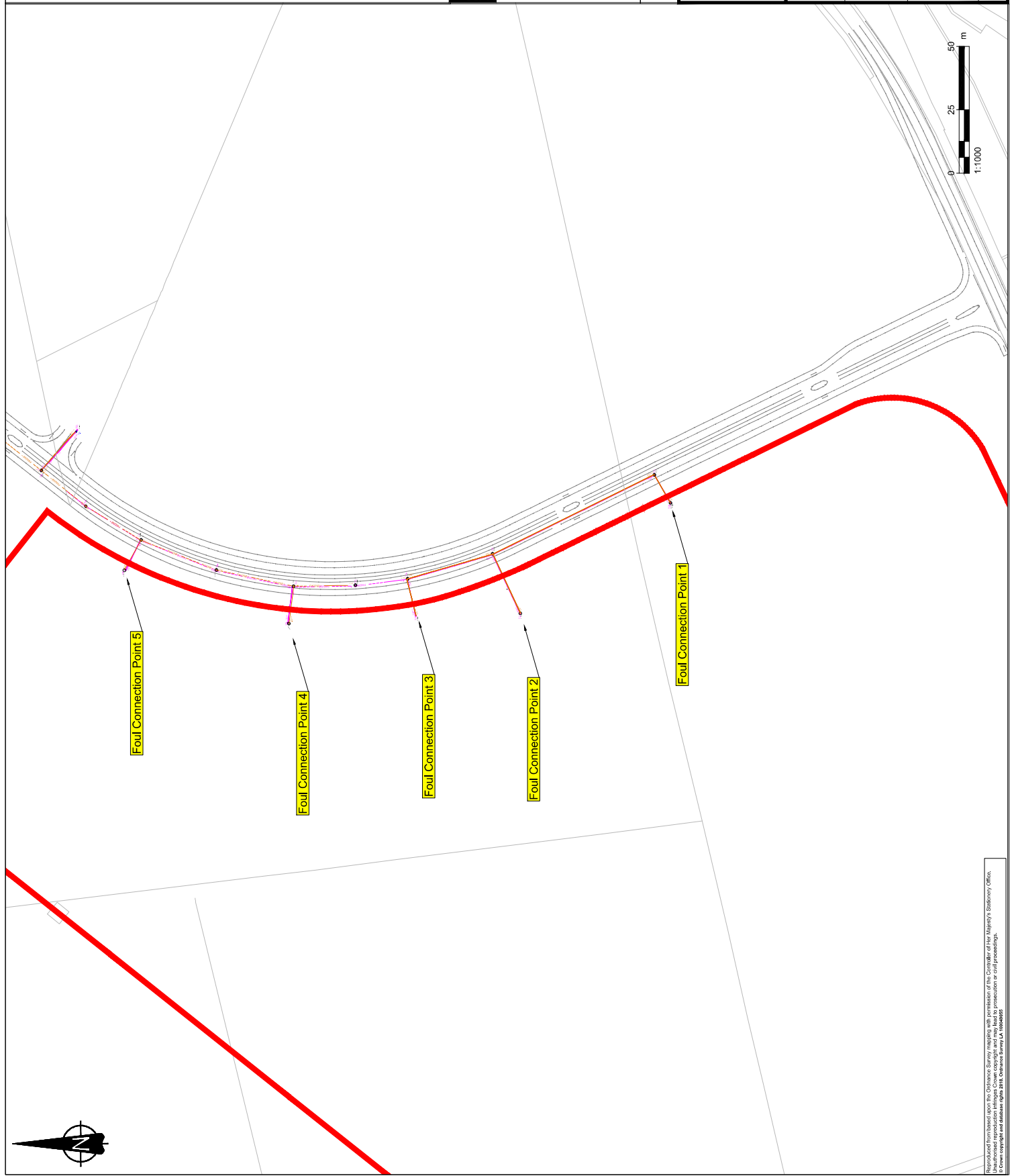
5.5 RPS Drawings & Other Documents

- Drawing 251, 252 & 253 - Proposed Surface Water Drainage Layouts
- Drawing 254, 255 & 256 - Proposed Foul Drainage Layouts
- Drawing 257 - Proposed Site Surface Water Drainage Exceedance Plan

5.6 Other Reference Documents

- Systra - Flood Risk Assessment & Drainage Strategy Ref. 22A29 - R001
- MetGeo - Topographical Survey P21-00059-MET-EXT-XX-TOP-M2-G-001 to 004 Rev 01

Appendix A: **IAMP Sewer As-Built Drawings**



FOR INFORMATION

Rev.	Date	Description	Drawn	Approved



Project
IAMP / BLUEBELL

Subject
As-Built Foul Sewerage

Contact	CW	Approved by	LM
Drawn by	CW	Sheet size	A2
Scale	1:1250	Date	MAY 2021

Drawing No.
IAMP-SCC-HDG-00-DR-CH-00_194

Revisions
P01

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Site 1 - Surface Water Discharge Rates:

Site 1 southern catchment drains to connection points 1a & 1b;
 Maximum Discharge Rate (FIXED)
 = 3.3 litres/second/hectare of catchment, upto and including 1 in
 100 year event.

Site 1 northern catchment drains to connection points 2a & 2b;
 Maximum Discharge Rates (VARIABLE)
 = 3.3 litres/second/hectare of catchment, for a 1 year event rising
 to 8 litres/second/hectare for 100 year event.

FOR INFORMATION



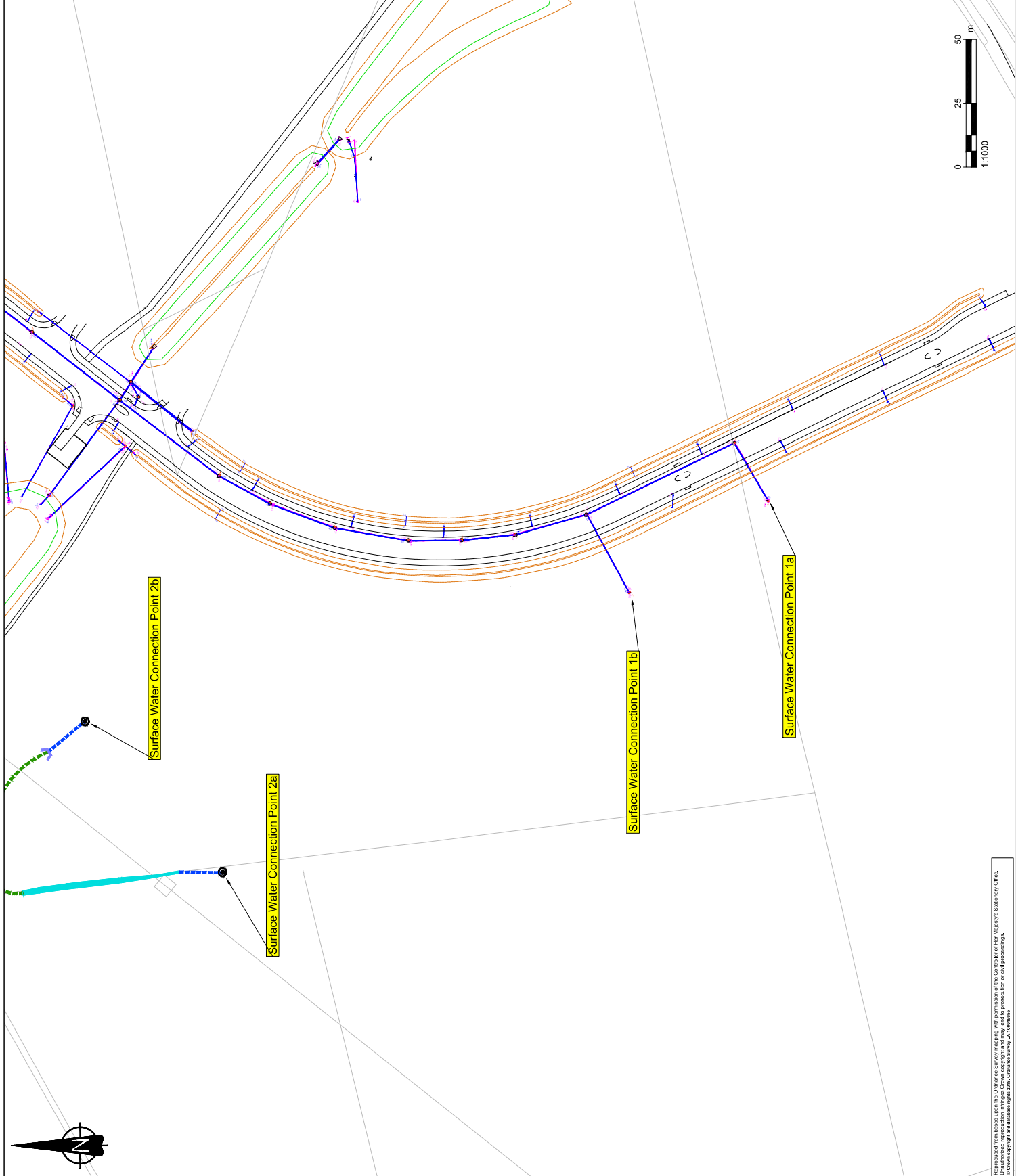
Project
IAMP / BLUEBELL

Subject
As-Built Drainage

Contact CW Approved by LM
 Drawn by CW Sheet size A2
 Scale 1:1250 Date MAY 2021

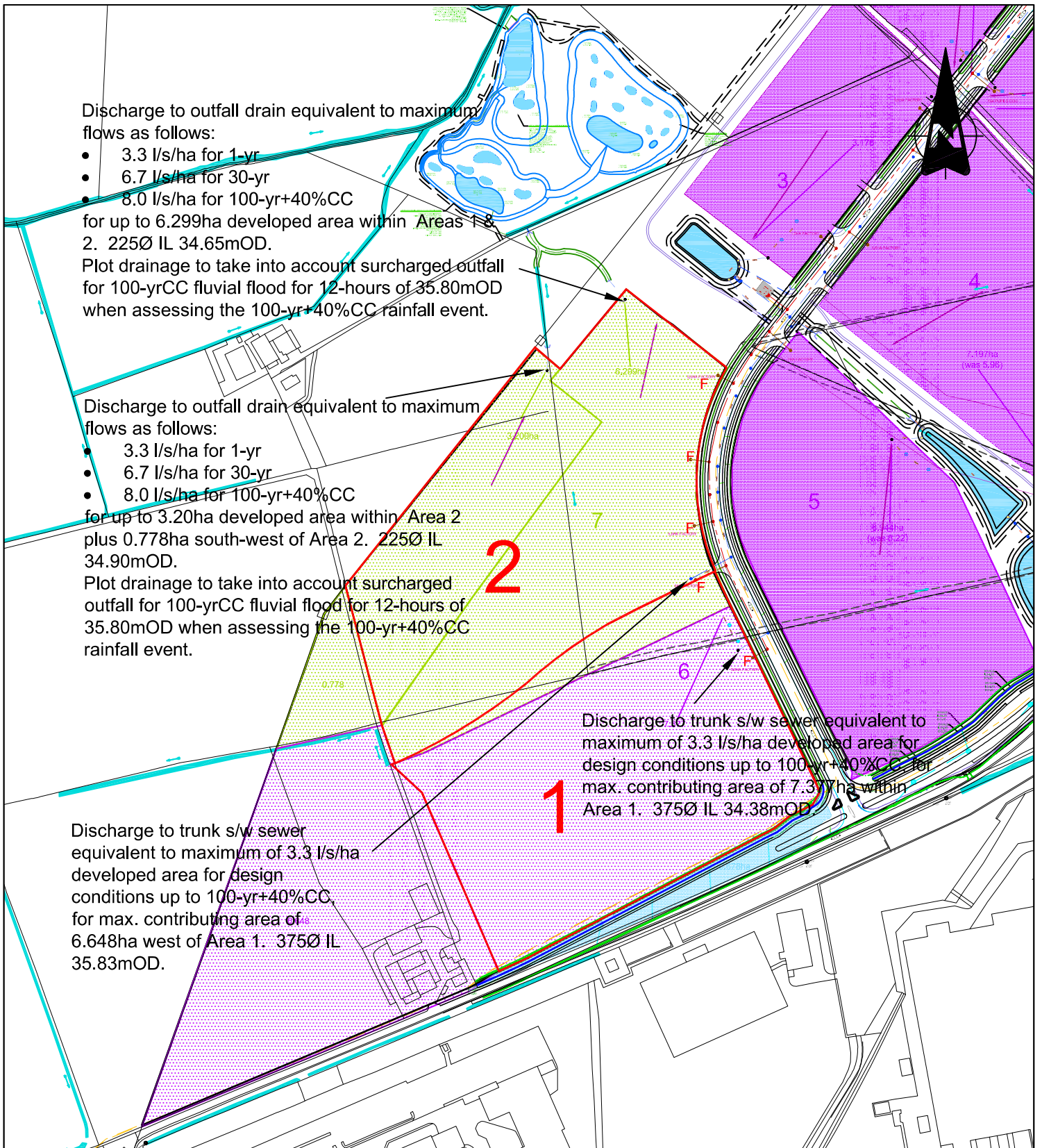
Drawing No. Revisions
IAMP-SCC-HDG-00-DR-CH-00_193 P01

Rev.	Date	Description	Drawn	Approved



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Appendix B: Discharge Limits

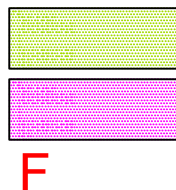


KEY

S/w drainage via habitat area to River Don

S/w drainage via main IAMP ONE system

F/w connection point (ILs vary)



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Rev.	Date	Revision details	Drawn	Checked	Approved

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Drawn	Checked	Approved
T Dawe	S Edwards	...

Title
Drainage discharge limits & locations



www.systra.co.uk

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Suffolk Street Queensway
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F 0121 230 6011

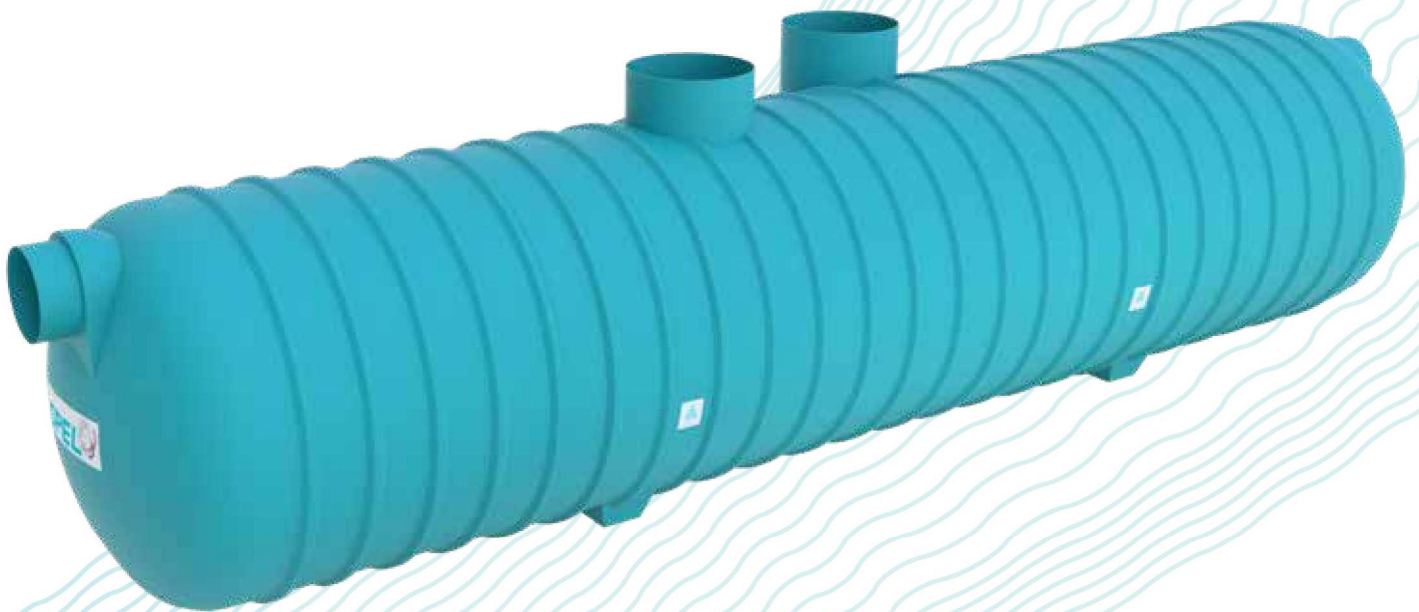
Client	IAMP LLP		Drawn	T Dawe	Checked	S Edwards	Approved	...			
Project	IAMP ONE Phase Two		Title	Drainage discharge limits & locations							
Drawing Status	Information	Drawing Number	107671-SK-03	Rev.	P0	Original drg. size	A4	Date	July 2020	Scale	1:5,000

Appendix C: Proprietary Product Details



Quality solutions protecting our global environment

The *safest answer for pollution control and our environment*



SPEL Stormceptor ESR (Enhanced Silt Retention)

SuDS Compliant ESR Range

spelproducts.co.uk

SPEL Stormceptor ESR Range

By-Pass System

The **total** treatment solution for SuDS

The new SPEL ESR System is fully certified to meet the CIRIA SuDS Mitigation Index. It has been tested by WRc (for TSS and Metals) to the British Water Code of Practice for Manufactured Treatment Devices. This unit is also compliant to the British and European Standard BS EN 858.

SPEL's ESR range is a total treatment system removing Hydrocarbons, Total Suspended Solids (TSS) and Metals (particulate). It's a highly efficient, single unit, water quality SuDS component.

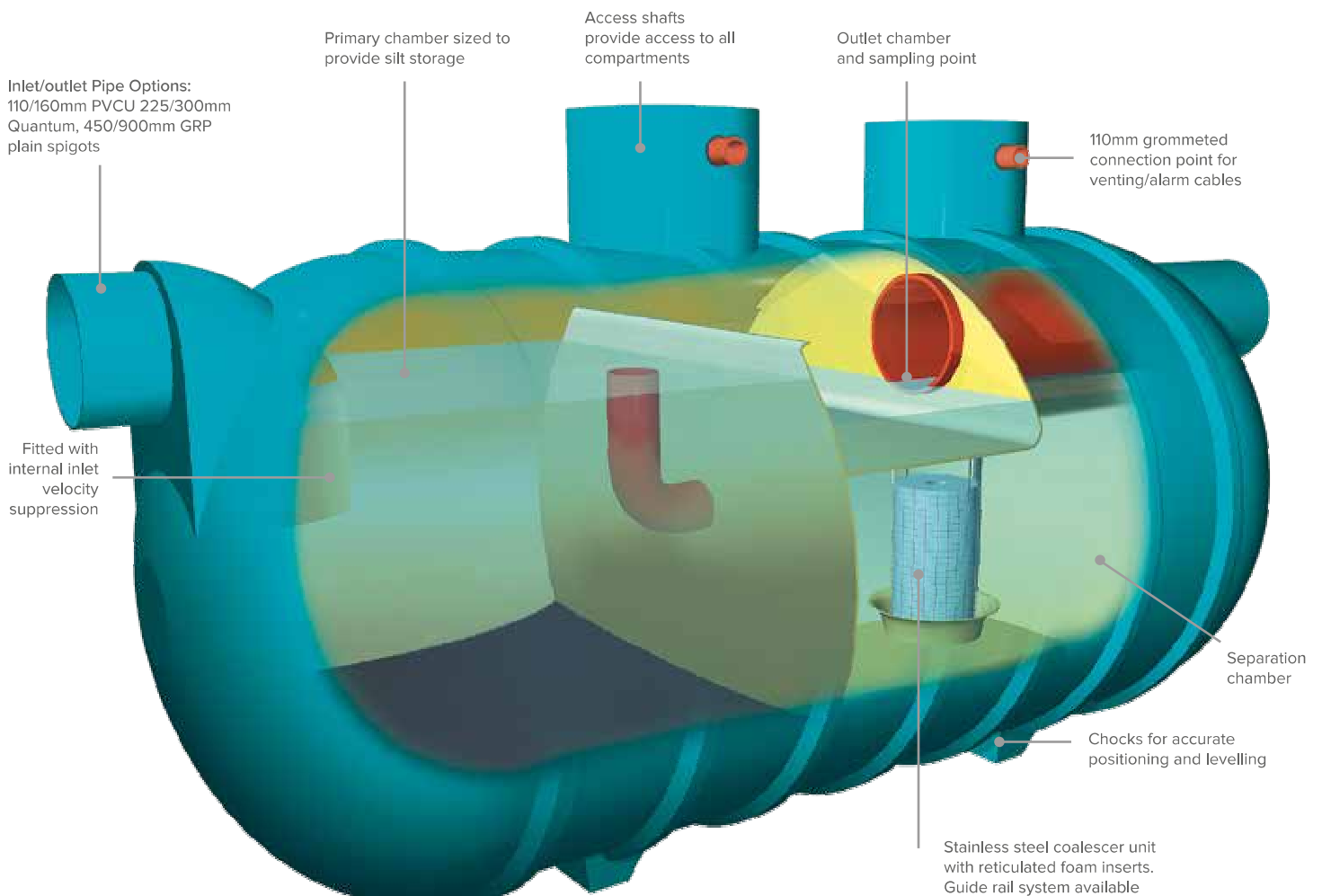
SPEL ESR Stormceptor Certified Mitigation Index

TSS 0.8

Metals 0.6

Hydrocarbons 0.9*

*H R Wallingford test results to BS EN 858



SPEL Stormceptor ESR Range By-Pass System



Surface Water Treatment Device Performance Declaration

Testing carried out according to British Water Code of Practice

Product Details	Description
Manufacturer	SPEL Products
Treatment Device Name/Model	Stormceptor Type 210 C1/SC
General description	Class 1 By-pass Separator with Silt Capacity
Envisaged application	Treatment of Surface Water Run-off
Pollutant(s) captured	Suspended Solids

Test	Value	Unit
Treatment device capacity	3200	litres
Sediment Storage capacity	1000	litres
Treatment Flow rate	10	l/s
Connected Area	1,333	m ²
Pollution retention flow rate	10	l/s

Parameter	Value	Unit
Maximum capacity flow rate	100	l/s
Device head loss (at treatment flowrate)	0.15	m
Device head loss (at maximum capacity treatment flowrate)	-	m
TSS capture and retention efficiency (Milisil W4 test sediment)	82	%
Zinc capture efficiency (if tested)	Not tested for dissolved metals	%
Zinc retention efficiency (if tested)	Not tested for dissolved metals	%
Copper capture efficiency (if tested)	Not tested for dissolved metals	%
Copper retention efficiency (if tested)	Not tested for dissolved metals	%
Dissolved Metals reduction	0.0	%
Particulate metals reduction*	61.5*	%
Total Metals reduction*	61.5*	%
Total Metals Mitigation Index	0.615*	-

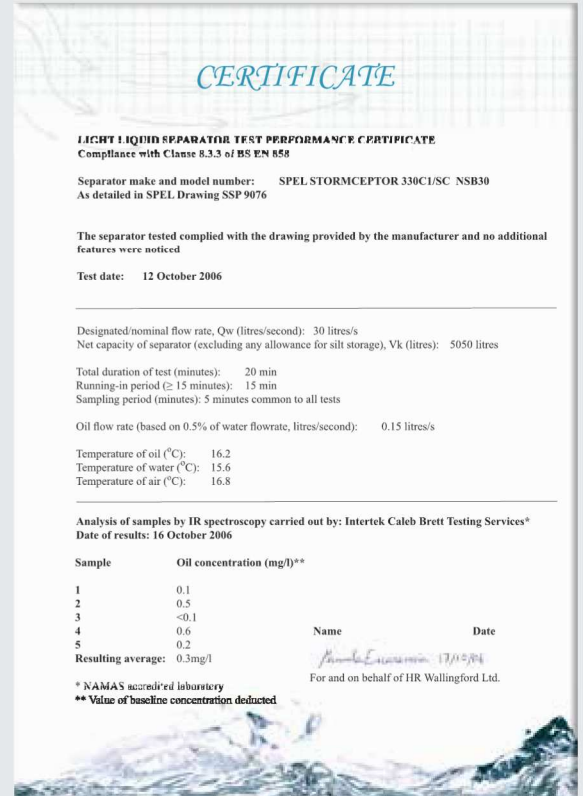
* Extrapolated value in accordance with British Water How to Guide: Applying the CIRIA The SuDS Manual (C753) Simple Index Approach to Proprietary / Manufactured Stormwater Treatment Devices. Version 7, Section 4.3, (2021- under pre-publication review).

Research and Development

Research and development is at the heart of what we do at SPEL, our passion as Zero Pollution Ambassadors is to be at the cutting edge of clean surface water technology.

Months of rigorous testing has resulted in the new SPEL Stormceptor ESR Range.

Certificates of compliance from WRC and HR Wallingford for the SPEL Stormceptor ESR Range



SPEL's Head of Technical Development alongside the WRC testing officer.

Protecting our Environment for Over 45 Years

The SuDS Manual is leading good practise in drainage design, SPEL are endorsing this with the release of the new SPEL Stormceptor ESR range.

Total Suspended Solids (TSS)	Metals	Hydrocarbons
0.8	0.6	0.9*

Added to these class-leading Mitigation Indices, the ESR range benefits from:

- British/European Standard BS EN 858-1 2002 certification.
- The SPEL 25 year shell Warranty.
- 50 year+ life expectancy.
- ISO9001 quality assurance.
- ISO14001 committed to environmental improvement

*H R Wallingford test results to BS EN 858

26.2 Pollution hazard indices for different land use classifications

Land use	Pollution hazard level	Total suspended solids (TSS)	Metals	Hydrocarbons
Residential roofs	Very low	0.2	0.2	0.05
Other roofs (typically commercial/industrial roofs)	Low	0.3	0.2 (up to 0.8 where there is potential for metals to leach from the roof)	0.05
Individual property driveways, residential car parks, low traffic roads (eg cul de sacs, homezones and general access roads) and non-residential car parking with infrequent change (eg schools, offices) ie < 300 traffic movements/day	Low	0.5	0.4	0.4
Commercial yard and delivery areas, non-residential car parking with frequent change (eg hospitals, retail), all roads and trunk roads/motorways ¹	Medium	0.7	0.6	0.7
Sites with heavy pollution (eg haulage yards, lorry parks, highly frequented lorry approaches to industrial estates, waste sites), sites where chemicals and fuels (other than domestic fuel oil) are to be delivered, handled, stored, used or manufactured; industrial sites; trunk roads and motorways ¹	High	0.8 ²	0.8 ²	0.9 ²

26.3 Indicative SuDS mitigation indices for discharges to surface waters

Type of SuDS component	Mitigation Indices		
	TSS	Metals	Hydrocarbons
Filter strip	0.4	0.4	0.5
Filter drain	0.4 ²	0.4	0.4
Swale	0.5	0.6	0.6
Bioretention system	0.8	0.8	0.8
Permeable pavement	0.7	0.6	0.7
Detention basin	0.5	0.5	0.6
Pond ⁴	0.7 ³	0.7	0.5
Wetland	0.8 ³	0.8	0.8
Proprietary treatment systems ^{5,6}	These must demonstrate that they can address each of the contaminant types to acceptable levels for frequent events up to approximately the 1 in 1 year return period event, for inflow concentrations relevant to the contributing drainage area.		

Tables from The SuDS Manual (C753), p568-569

For reference notes, please see the full manual: https://www.ciria.org/Memberships/The_SuDS_Manual_C753_Chapters.aspx

SPEL Stormceptor ESR Range By-Pass System

ESR Specification Chart

Model	Series	Treated Flow Rate -l/s	Maximum Flow	Catchment area (m ²)*	Oil storage (litres)	Silt capacity (litres)	Overall length* (mm) L	Overall diameter (mm)	Inlet Invert (mm) A	Base to Inlet (mm) B	Base to outlet (mm) C	Max in/out pipe diameter** (mm)	Number of access shafts (dia. mm)			
													600	750	900	1200
210C1/ESR	200	10	100	1,333	150	1,000	2,920	1,225	560	1,350	1,300	300	-	1	-	-
212C1/ESR	200	12	120	1,600	180	1,200	3,570	1,225	560	1,350	1,300	300	-	1	-	-
215C1/ESR	200	15	150	2,000	225	1,500	4,237	1,225	560	1,350	1,300	300	-	1	-	-
320C1/ESR	300	20	200	2,665	300	2,000	3,200	1,875	700	1,450	1,350	450	2	-	-	-
325C1/ESR	300	25	250	3,333	375	2,500	3,540	1,875	700	1,450	1,350	450	2	-	-	-
330C1/ESR	300	30	300	4,000	450	3,000	4,420	1,875	700	1,450	1,350	450	-	1	1	-
340C1/ESR	300	40	400	5,333	600	4,000	5,760	1,875	740	1,410	1,310	450	1	1	-	-
345C1/ESR	300	45	450	6,000	675	4,500	6,570	1,875	740	1,410	1,310	450	1	1	-	-
350C1/ESR	300	50	500	6,665	750	5,000	7,060	1,875	740	1,410	1,310	450	1	1	-	-
460C1/ESR	400	60	600	8,000	900	6,000	4,400	2,700	950	2,100	2,000	600	1	-	1	-
470C1/ESR	400	70	700	9,333	1,050	7,000	5,250	2,700	950	2,100	2,000	600	1	-	1	-
480C1/ESR	400	80	800	10,665	1,200	8,000	6,170	2,700	950	2,100	2,000	600	1	-	1	-
4100C1/ESR	400	100	1000	13,333	1,500	10,000	7,400	2,700	1,100	1,950	1,850	750	1	-	1	-
4125C1/ESR	400	125	1250	16,665	1,875	12,500	9,050	2,700	1,100	1,950	1,850	750	1	-	1	-
4150C1/ESR	400	150	1500	20,000	2,250	15,000	9,950	2,700	1,100	1,950	1,850	750	-	-	2	-
4160C1/ESR	400	160	1600	21,333	2,400	16,000	11,830	2,700	1,250	1,800	1,700	750	1	1	1	-
5180C1/ESR	500	180	1800	24,000	2,700	18,000	7,470	3,650	1,185	2,690	2,550	900				
5200C1/ESR	500	200	2000	26,665	3,000	20,000	8,530	3,650	1,185	2,690	2,355	1,200				
5250C1/ESR	500	250	2500	33,333	3,750	25,000	10,040	3,650	1,185	2,690	2,355	1,200				
6300C1/ESR	600	300	3000	40,000	4,500	30,000	10,310	4,150	1,325	2,850	2,675	1,200				
6350C1/ESR	600	350	3500	46,665	5,250	35,000	11,470	4,150	1,325	2,850	2,675	1,200				
6400C1/ESR	600	400	4000	53,333	6,000	40,000	12,690	4,150	1,325	2,850	2,675	1,200				
6500C1/ESR	600	500	5000	66,665	7,500	50,000	15,870	4,150	1,325	2,850	2,675	1,200				
6600C1/ESR	600	600	6000	80,000	9,000	60,000	18,260	4,150	1,325	2,850	2,675	1,200				
6700C1/ESR	600	700	7000	93,333	10,500	70,000	22,250	4,150	2,850	2,850	2,675	1,200				

Access shafts dependent on orientation of pipework (see page 7 for orientation options).

*These catchment areas are based on the SuDS Manual requirement for By-Pass devices to treat the 1 in 1 year storm event (27mm).

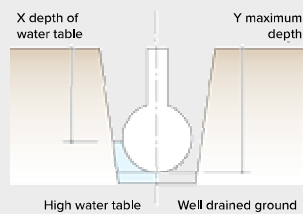
**This dimension is for A-C inlet/outlet options, larger pipe sizes are available for D-I inlet/outlet options.

Tank Shell Specifications

The 'standard' specification is normally adequate for most installations but Heavy, Extra Heavy and Special specifications are available depending upon the burial depth and water table level, in winter. The concern is when the system is emptied completely and remains empty for a period of time.

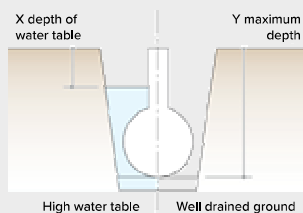
Standard tanks

Series	WT (m)	D (m)
200	1.0	4.0
300	0.9	4.0
400	1.3	5.0
500	1.9	5.7
600	2.4	6.2



Heavy tanks

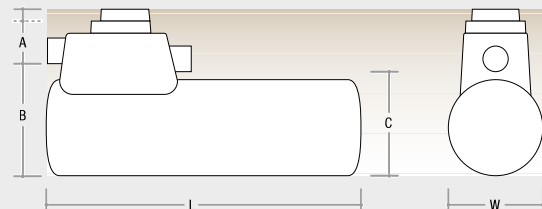
Series	WT (m)	D (m)
200	2.0	6.0
300	2.8	5.6
400	3.5	6.0
500	4.5	7.25
600	4.7	7.3



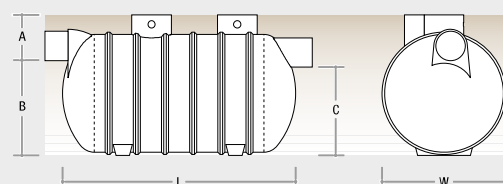
Based on installation in concrete with concrete surround.
For pea gravel surround, see SPEL Data Manual p13.5

- 200 Series ESR** – Inside diameter 1200mm, outside diameter 1225mm.
- 300 series ESR** – Inside diameter 1800mm, outside diameter 1875mm.
- 400 series ESR** – Inside diameter 2600mm, outside diameter 2700mm.
- 500 series ESR** – Inside diameter 3500mm, outside diameter 3650mm.
- 600 series ESR** – Inside diameter 4000mm, outside diameter 4150mm.

200 series



300/400/500 & 600 series



Commissioning, Installation & Maintenance

Installation

SPEL Separators can be installed with a concrete or pea gravel surround, dependent upon ground conditions and water table level. Detailed installation instructions are provided with each unit, see Installation TSII or SPEL Data Manual Section 13.

Site access and conditions

It is the responsibility of the contractor to ensure suitable access to good hard ground that is safe and suitable for off-loading.

Off-loading/handling

The contractor is responsible for off-loading. The tank must be handled with care to prevent accidental damage from impact or contact with sharp objects.

Tanks should be lifted using slings, not chains or wire ropes. Do not drag tanks along the ground for any distance and avoid jarring or bumps. Do not lift with water in the tank.

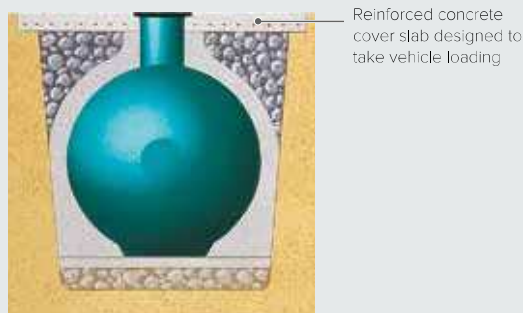
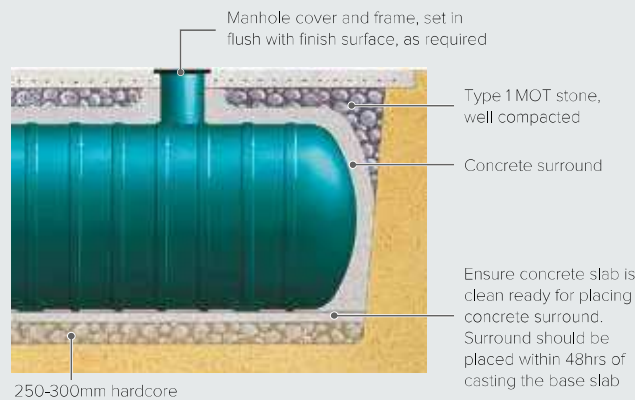
Health and safety

Installation should be carried out by a competent contractor in accordance with Health & Safety at Work legislation and good building practice.

A warning notice should be visible at the top of each access shaft – ‘danger, harmful fumes’ and ‘respirators must be worn in this tank’. Before entering persons must be qualified in accordance with ‘confined space’ requirements.

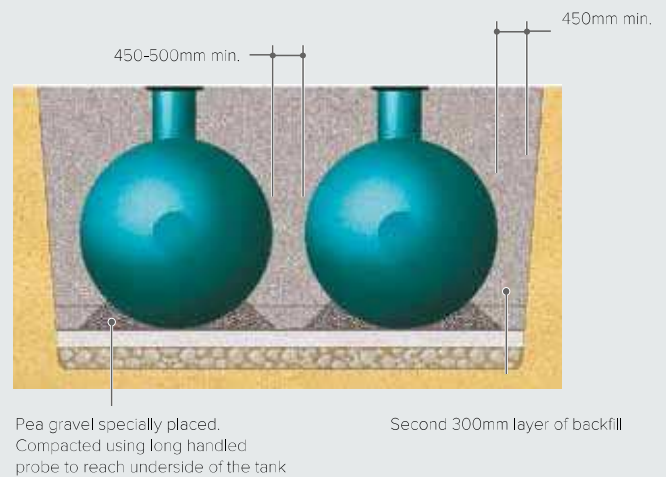
Installation – Concrete

Installation of SPEL Separator tank with chocks and a load bearing cover slab.



Installation – Pea gravel

Installation of SPEL Separator tank where ground over installation is not required to be vehicle load bearing.



Tanks surrounded with pea gravel or similar

Where it is economical to do so, SPEL Separator tanks can be surrounded in pea gravel or with similar free flowing clean rounded aggregate. Details of the installation procedure, approved backfill materials and the need for mechanical anchoring in specific circumstances are contained in the SPEL Data Manual and SPEL Separator Installation Instructions.

Maintenance Requirements

We recommend the SPEL Separator is checked at 3, 6 or 12 monthly intervals to determine the depth of silt in the primary chamber.

The SPEL automatic alarm/monitoring system will automatically warn you when the SPEL Separator requires emptying of light liquids. See ref. 3.10 – 3.19. However, silt will accumulate and require removing at intervals depending on the site conditions.

SPELGuard contracts available.

For more information contact us:

info@spelproducts.co.uk | 01743 445 200



SPELGuard Commissioning & Maintenance

Optional extras

SPEL coalescer unit guide rail systems

To facilitate easy insertion of coalescer units, the SPEL guide rail system manufactured in stainless steel can be incorporated into SPEL Puraceptors and class 1 Stormceptors.

Brackets fixed to the top and bottom of the coalescer unit simply engage the stainless steel guide rail fixed to the top of the stub access shaft. The coalescer unit is then lowered in the normal way, being guided at the correct angle into the conical base.

Lifting chains are available for the larger coalescer units and where extension shafts are fitted.

Extension guide rails can be incorporated into SPEL extension shafts to suit.

SPEL coalescer unit lifting, locating and locking system

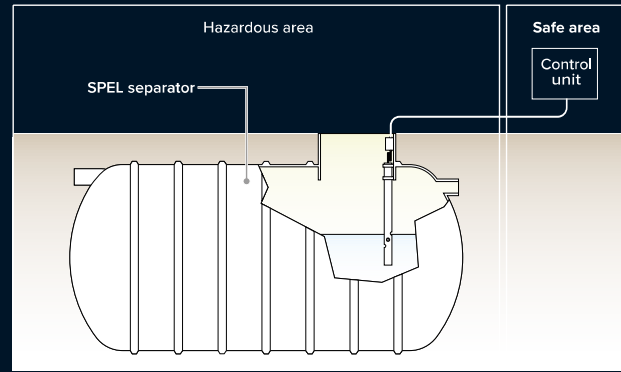
The SPEL lifting, locating and locking system is manufactured in stainless steel and replaces the standard coalescer unit handle.

The locating/locking handle ensures the coalescer unit is seated and locked in its correct position after maintenance.



Above left: Lifting, locating and locking system with guide rail system.

Above right: The SPEL coalescer unit with lifting chain.



SPEL offer a range of alarms, for full details refer to the *SPEL Data Manual Section 3*. Kiosks with beacons and provision for BMS and remote information via browser user interface.

SPEL Model Alarm-DY14400

Oil alarm only – not BMS compatible

SPEL Model IdOil-20

Oil, silt and/or high level alarm with volt free terminal for beacon and BMS capability

SPEL Model IdOil-30

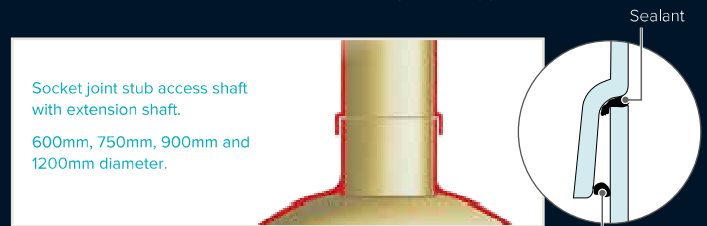
For oil, silt and/or high level as required. This alarm provides a range of options for BMS and remote information to on or off-site monitoring facilities.

SPEL Model IdOil Solar Oil Separator Alarm

for remote off-grid areas.

SPEL extension access shafts

Extension access shafts are available for deep invert applications.



Socket joint stub access shaft with extension shaft.

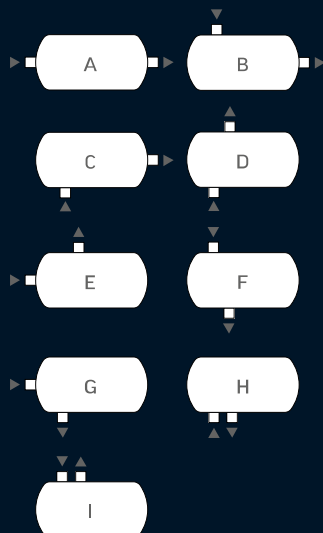
600mm, 750mm, 900mm and 1200mm diameter.

See tripod drawing below for other extension adjustments

Double seal if required

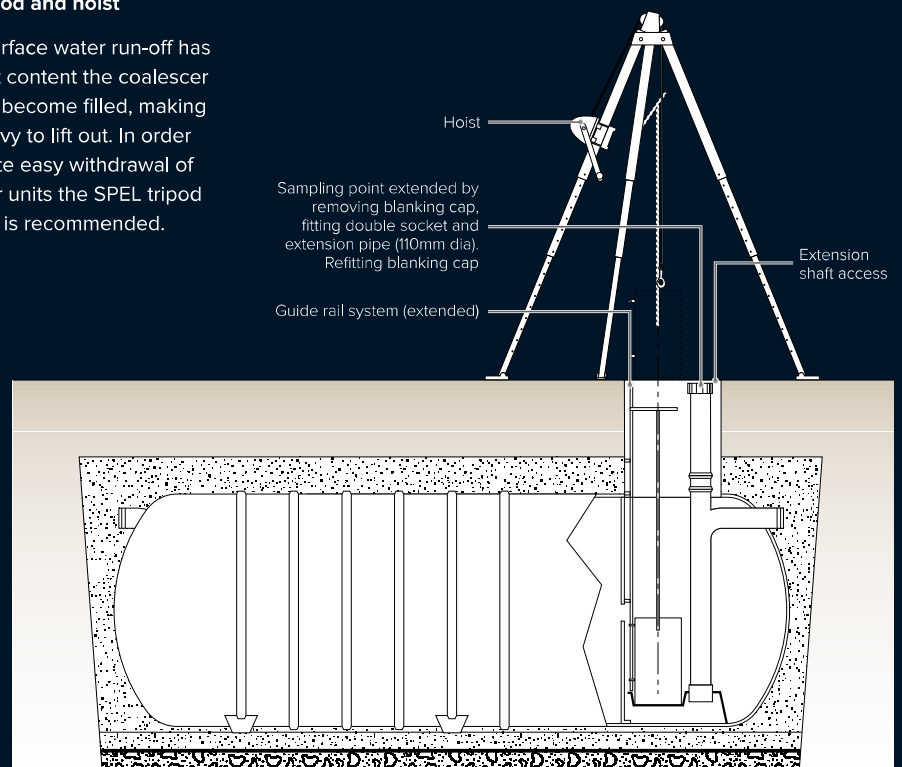
SPEL ESR Range – Inlet/outlet orientation

Dependent upon model and diameter of connections, these nine different orientations are available. However on the larger models it is important to check with our technical department.



SPEL tripod and hoist

Where surface water run-off has a high silt content the coalescer units can become filled, making them heavy to lift out. In order to facilitate easy withdrawal of coalescer units the SPEL tripod and hoist is recommended.



Sampling point extended by removing blanking cap, fitting double socket and extension pipe (110mm dia). Refitting blanking cap

Guide rail system (extended)

Extension shaft access

Hoist

Stormceptor ESR

Enhanced Silt Retention

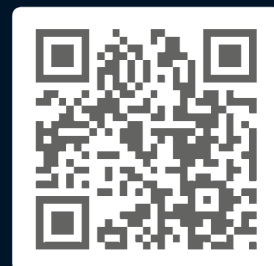
SPEL's ESR range is a total treatment system removing Hydrocarbons, Total Suspended Solids (TSS) and Metals (particulate). It's a highly efficient, single unit, water quality SuDS component.



Lancaster Road, Shrewsbury, Shropshire SY1 3NQ

Phone: +44 (0)1743 445200

Email: info@spelproducts.co.uk / sales@spelproducts.co.uk



[spelproducts.co.uk](https://www.spelproducts.co.uk)



TO VIEW ALL THE
INFORMATION AND
BENEFITS OF OUR
STORMCLEANSER™
SCAN THE QR CODE



STORMCLEANSER™



STORMCLEANSER™

HYDRODYNAMIC SEPARATOR

FP McCann has designed and developed the enhanced StormCleanser™ for the treatment of urban catchment stormwater run-off.

The StormCleanser™ provides a cost-effective solution for designers, engineers and contractors involved in the provision of Sustainable Drainage Systems (SuDS). This unit has no moving parts, requires no power, and is constructed within standard precast concrete chambers.

The standard units come factory fitted in precast chambers and could also be installed on-site as required. The modular stainless steel built assembly is designed to provide installation simplicity. The separator internal assembly is fabricated out of stainless steel (304L/316L), per BSI BS EN 10088-2-2014. Stainless Steel material grade and composition, provides exceptional longevity due to high corrosion resistance. The lifespan of the internal assembly outlasts the lifespan of a typical precast concrete structure (100+ years).

The enhanced StormCleanser™ design allows for an inlet at varying angles with respect to the outlet. Moreover, the design also enables configuration with multiple inlets, at different orientations and of various sizes. The symmetric inlet design provides the freedom of clockwise or counter-wise flow direction, and allows the vortex formation with minimal hydrodynamic losses and turbulence.



Fixed flow direction separators tend to lose efficiency especially when a higher flow inlet is placed ahead of a lower flow inlet. The changeable flow direction provides drainage engineers the freedom to set the desired orientation of multiple inlets. StormCleanser™ allows for preferential flow direction of the main inlet, providing optimum performance for a wide range of configurations. StormCleanser™ is developed with state-of-the-art hydraulics technology, using Computational Fluid Dynamics (CFD) modelling and full-scale experimentation.



OPERATION

The StormCleanser™ is specifically designed to remove suspended solids, hydrocarbons, and floatable debris from the stormwater runoff. Water and pollutants enter the system via the inlet pipe, where the internal geometry enables low energy forced vortex flow patterns. This allows the floatables to gather and solids to settle to the bottom of the treatment chamber for subsequent removal.

Settled sediment is retained within the sump storage of the unit, allowing easy access for suction cleaning. Re-suspension of the solids is minimised by the provision of a baffle plate (Catch Skirt), positioned above the sediment storage sump. A central core allows for convenient suction hose entry down to the sump for cleaning and maintenance. If there is a stormwater surge in excess of maximum treatment flow rate, it overflows a weir, bypasses the treatment zone and directly discharges through the outlet pipe. This helps to minimize the effects of scour within the treatment region and prevents wash out of retained sediment downstream.



FEATURES

- Developed at inhouse high-flow Hydraulic Rig, and rigorously tested against actual rainfall inlet conditions
- High retention at most frequent rainfall events per annum
- High treatment flow rate to size ratio preventing oversized separators in the drainage design i.e. minimise footprint
- Wide range of chamber sizes (Ø1200 – Ø4000mm) and pipe sizes (Ø150 – Ø900mm)
- Tested using extremely fine sand particles starting from 2µm
- Modular and innovative design for multiple inlet orientation
- Choice of flow direction providing optimal configuration performance
- Complies with SuDS legislation

APPLICATIONS

- SuDS based drainage networks
- Housing Developments
- Retail Parks
- Commercial Centres
- Leisure Facilities
- Industrial Developments
- Highway Drainage Products
- Car Parks, Roads, Motorways and Trafficked Areas
- Existing surface water sewer discharges

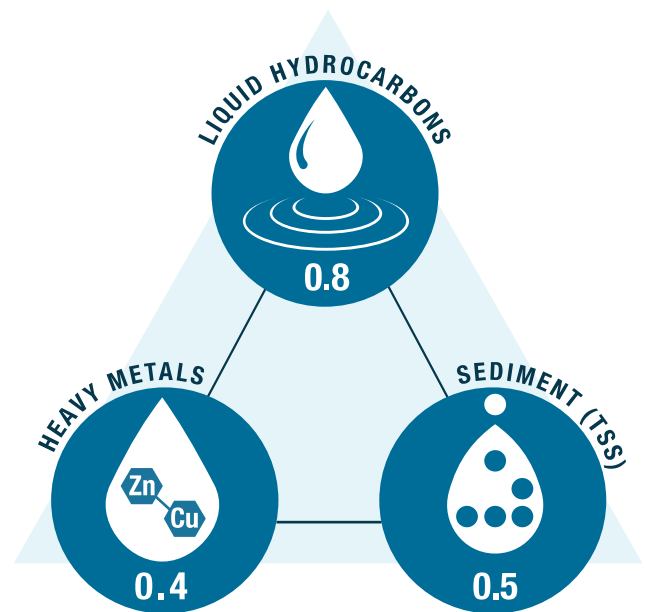
SPECIFICATIONS

MODEL	TANK DIAMETER	MAX TREATMENT FLOW RATE	PIPE SIZE	MIN. SEDIMENT STORAGE CAPACITY	MIN. OIL STORAGE CAPACITY	MAX. HEAD LOSS AT TREATMENT FLOW RATE
	(mm)	(L/s)	(mm)	(m³)	(L)	(mm)
PRE-SC1200	1200	43	300	0.50	320	240
PRE-SC1500	1500	67	375	0.82	630	300
PRE-SC1800	1800	96	450	1.23	1085	360
PRE-SC2100	2100	131	525	1.75	1725	420
PRE-SC2400	2400	172	600	2.38	2575	480
PRE-SC2700	2700	217	675	3.13	3670	540
PRE-SC3000	3000	268	750	4.01	5035	600
PRE-SC3600	3600	387	900	6.20	8703	720
PRE-SC4000	4000	477	900	8.00	11938	800

Notes:

- MTFR is per WRc specified Weighted Annualised Removal Efficiency of at least 50%, for a particle size distribution (PSD) with a D_{50} : 63µm and density of 2650 kg/m³
- Customized solutions such as: oriented inlet, multiple inlets, and different pipe sizes available as required
- Sediment storage capacity could be extended as required, per the desired maintenance frequency

SuDS POLLUTION MITIGATION INDEX (PMI)





TO VIEW ALL THE
INFORMATION AND
BENEFITS OF OUR
STORMCLEANSER™
SCAN THE QR CODE



AGRICULTURE

Lydney 01594 847500 Grantham 01476 562277

ARCHITECTURAL PRECAST

London 020 3905 7640

BOX CULVERTS

Weston Underwood 01335 361269

BUILDING PRODUCTS

Cadeby 01455 290780

DOCK LEVELLER PITS

Weston Underwood 01335 361269

DRAINAGE

Ellistown 01530 240000 (England/Wales) Magherafelt 028 7954 9026 (Scotland/NI)

FENCING

Cadeby 01455 290780

FILTER BED SYSTEMS

Littleport 01353 861416

FLOORING

Weston Underwood 01335 361269 Uddingston 01698 803300 Magherafelt 028 7954 9026 (NI)

POWER & INFRASTRUCTURE

Littleport 01353 861416

RAIL

Littleport 01353 861416

SPECIALIST PRECAST

Littleport 01353 861416

STRUCTURAL PRECAST

Byley 01606 843500 Grantham 01476 562277

STORMTANK™ - TANKS & CHAMBERS

Weston Underwood 01335 361269

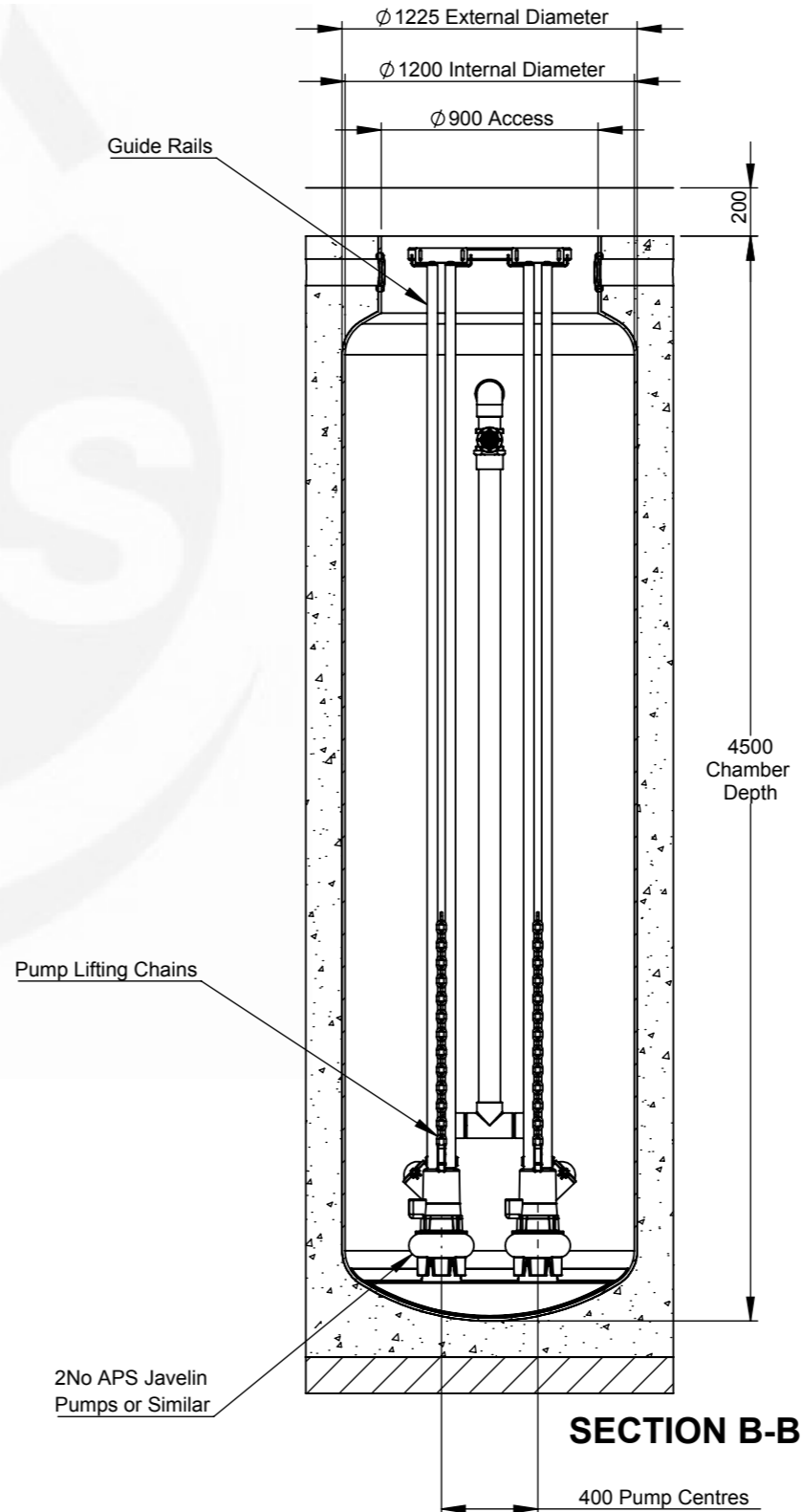
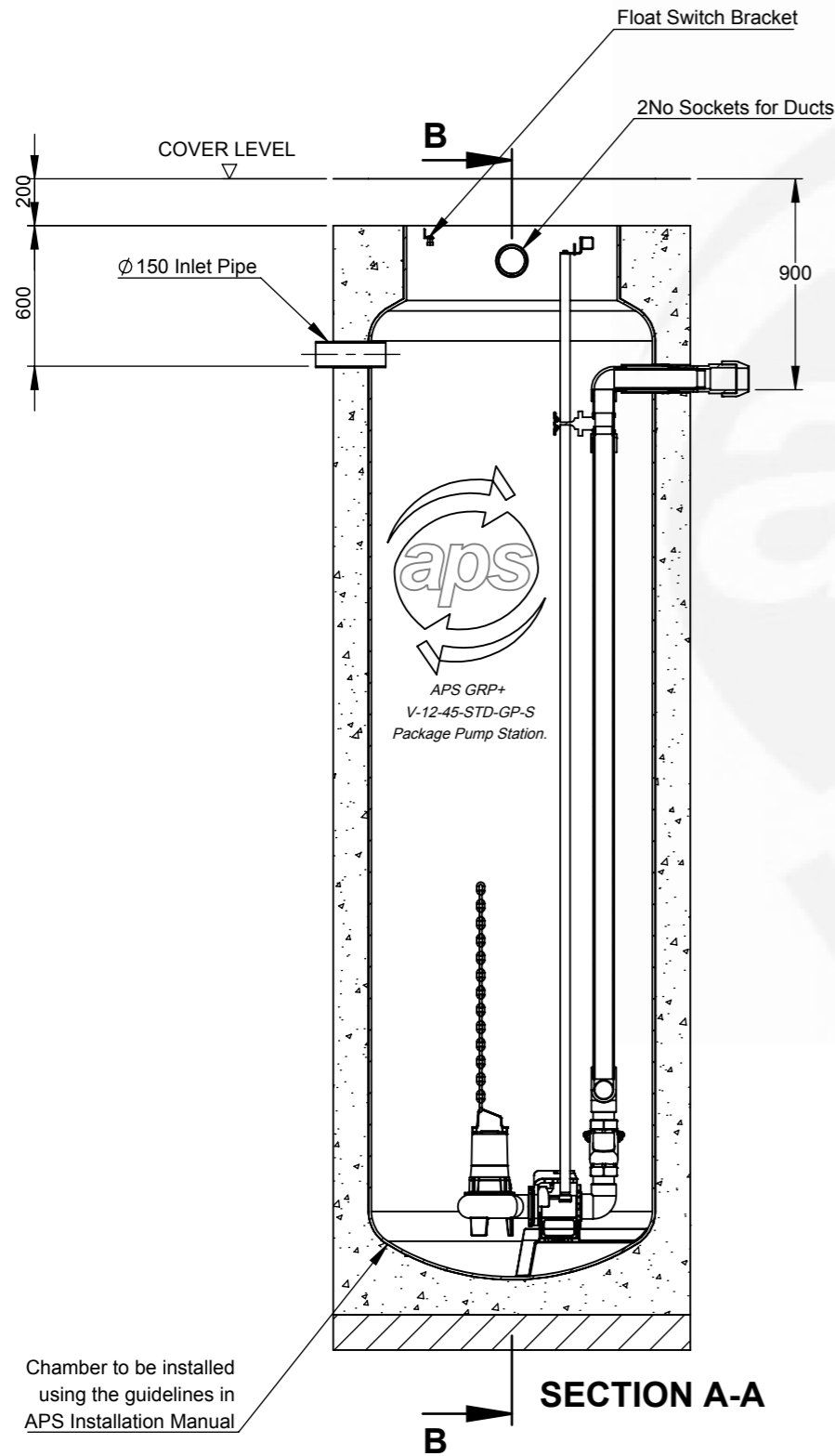
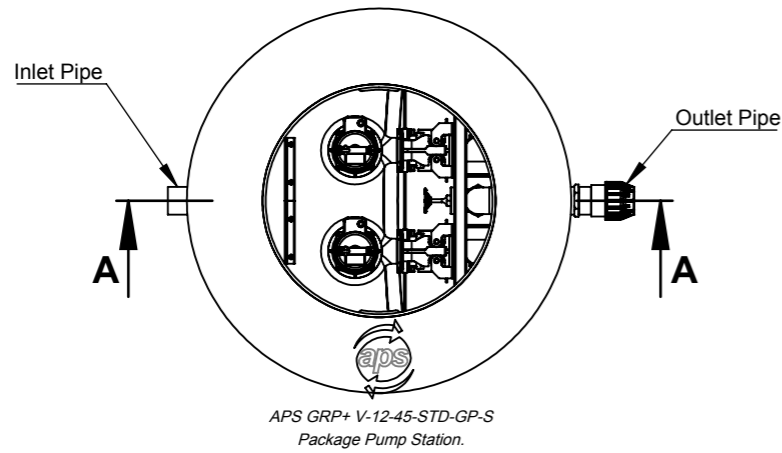
TUNNELS & SHAFTS

Cadeby 01455 290780

WALLING

Grantham 01476 562277 Lydney 01594 847500
Uddingston 01698 803 300 (Scotland) Magherafelt 028 7954 9026 (NI)

FPMCCANN.CO.UK



Dimensions are subject to Dimensional Tolerances. If critical, check physically prior to installation. All Dimensions in mm unless stated otherwise.

The customer must check tank specification is compatible with ground water table level (in winter) and burial depth. Refer to burial depth graph.

Pumpwell delivered with pumps not installed to avoid damage in transit. Read operating and installation guidelines before installing.

This drawing is confidential and must not be reproduced, copied or passed to a third party without the written permission from All Pump Solutions

Material Specification Options

Bolts:	BZP / GALV / SS
Pipework:	UPVC / CPVC / PE / DI / SS
Guide Rail:	GALV / SS
Tank Specification:	STD / HVY/ XHVY/ SPE / XSPE
Laminate Specification:	GP / CR / XCR

Notes

1. Pump Chamber considered as zone 2 Non Hazardous Area

A	Standard Drawing for Reference	25/03/19	AW
Issue:	Description:	Date:	Auth:



Tel: 01743 465463
Email: sales@allpumpsolutions.com

all pump solutions
FLUID EXPERTISE

Title: **Standard Layout Drawing
APS GRP+ V-12-45-STD-GP-S**

Size:	Scale:	Drawn By:	Approved By:	Date:
A3	1:30	AW	DH	25/03/2019

Drawing Number:	Issue:
SLD-V-12-45-STD-GP-S	A

Appendix D: Microdrainage Design Model Details

Noble House, Capital Drive
 Linford Wood
 Milton Keynes, MK14 6QP

AESC Giga Factories
 Plot 2



Date 06/02/2024
 File 20439P ENV3 249.MDX

Designed by LMA
 Checked by MM

Innovyze

Network 2020.1.3

Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
OB1	38.657	0.992	Open Manhole	450	2.000	37.665	150				
OB2	38.310	0.992	Open Manhole	450	3.000	37.318	150				
S100	38.200	1.173	Open Manhole	1500	2.001	37.027	225	2.000	37.102	150	
								3.000	37.102	150	
OB3	37.610	1.085	Open Manhole	450	4.000	36.525	225				
OB4	38.220	1.085	Open Manhole	450	5.000	37.135	225				
S101	38.054	1.941	Open Manhole	1800	2.002	36.113	375	2.001	36.263	225	
								4.000	36.263	225	
								5.000	36.263	225	
OB5	38.220	1.085	Open Manhole	450	6.000	37.135	300				
S102	38.386	2.719	Open Manhole	1500	2.003	35.667	450	2.002	35.742	375	
								6.000	35.817	300	
OB6	37.610	1.125	Open Manhole	450	7.000	36.485	225				
OB7	38.220	1.125	Open Manhole	450	8.000	37.095	225				
S103	38.054	3.070	Open Manhole	1800	2.004	34.984	525	2.003	35.059	450	
								7.000	35.284	225	
								8.000	35.284	225	
S104	38.386	3.549	Open Manhole	2100	2.005	34.837	525	2.004	34.837	525	
OB8	38.400	0.992	Open Manhole	450	9.000	37.408	150				
S105	38.550	3.879	Open Manhole	2100	2.006	34.671	600	2.005	34.746	525	
								9.000	36.771	150	1650
OB9	38.555	0.992	Open Manhole	450	10.000	37.563	150				
S106	38.597	1.209	Open Manhole	1500	10.001	37.388	225	10.000	37.463	150	
OB10	38.555	0.992	Open Manhole	450	11.000	37.563	225				
S107	38.597	2.142	Open Manhole	1500	10.002	36.455	225	10.001	36.455	225	
								11.000	36.455	225	
OB11	38.550	0.987	Open Manhole	450	12.000	37.563	225				
S108	38.597	2.917	Open Manhole	1500	10.003	35.680	300	10.002	35.755	225	
								12.000	35.755	225	
OB12	38.555	0.992	Open Manhole	450	13.000	37.563	150				
S109	38.557	3.512	Open Manhole	1500	10.004	35.045	375	10.003	35.120	300	
								13.000	35.270	150	
S110	38.557	4.010	Open Manhole	1800	2.007	34.547	675	2.006	34.622	600	
								10.004	34.847	375	
OB13	38.075	1.085	Open Manhole	450	14.000	36.990	225				
OB14	37.610	1.085	Open Manhole	450	15.000	36.525	150				
S111	38.300	2.900	Open Manhole	1500	14.001	35.400	225	14.000	35.400	225	
								15.000	35.475	150	
OB15	38.519	0.990	Open Manhole	450	16.000	37.529	150				
S112	38.557	4.166	Open Manhole	1800	2.008	34.391	675	2.007	34.391	675	
								14.001	34.841	225	
								16.000	36.566	150	1650

Noble House, Capital Drive
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Network 2020.1.3

Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
OB16	38.519	0.990	Open Manhole	450	17.000	37.529	150				
S113	38.557	4.406	Open Manhole	1800	2.009	34.151	675	2.008	34.151	675	
								17.000	36.326	150	1650
OB17	38.519	0.990	Open Manhole	450	18.000	37.529	150				
S114	38.557	4.647	Open Manhole	1800	2.010	33.910	675	2.009	33.910	675	
								18.000	36.085	150	1650
OB18	38.687	0.992	Open Manhole	450	19.000	37.695	150				
S115	38.727	1.377	Open Manhole	1500	19.001	37.350	150	19.000	37.350	150	
OB19	38.687	0.992	Open Manhole	450	20.000	37.695	150				
S116	38.727	2.385	Open Manhole	1500	19.002	36.342	225	19.001	36.417	150	
								20.000	36.417	150	
S117	37.727	1.865	Open Manhole	1500	19.003	35.862	225	19.002	35.862	225	
OB20	37.976	0.992	Open Manhole	450	21.000	36.984	150				
OB21	38.220	1.085	Open Manhole	450	22.000	37.135	150				
S118	38.055	2.534	Open Manhole	1500	19.004	35.521	375	19.003	35.671	225	
								21.000	35.746	150	
								22.000	35.746	150	
OB22	37.610	1.085	Open Manhole	450	23.000	36.525	225				
OB23	38.220	1.050	Open Manhole	450	24.000	37.170	150				
S119	38.055	2.592	Open Manhole	1500	19.005	35.463	375	19.004	35.463	375	
								23.000	35.613	225	
								24.000	35.688	150	
OB24	38.220	1.085	Open Manhole	450	25.000	37.135	225				
S120	38.386	3.258	Open Manhole	1500	19.006	35.128	450	19.005	35.203	375	
								25.000	35.353	225	
OB25	38.220	1.085	Open Manhole	450	26.000	37.135	225				
OB26	37.610	1.085	Open Manhole	450	27.000	36.525	225				
S121	38.055	3.381	Open Manhole	1500	19.007	34.674	600	19.006	34.824	450	
								26.000	35.049	225	
								27.000	35.049	225	
S122	38.386	3.906	Open Manhole	2100	19.008	34.480	600	19.007	34.480	600	
S123	38.608	4.400	Open Manhole	2100	19.009	34.208	600	19.008	34.208	600	
OB27	38.605	0.992	Open Manhole	450	28.000	37.613	150				
S124	38.660	4.675	Open Manhole	1800	19.010	33.985	600	19.009	33.985	600	
								28.000	35.935	150	1500
OB28	38.519	2.083	Open Manhole	450	29.000	36.436	150				
S125	38.557	4.979	Open Manhole	1800	2.011	33.578	900	2.010	33.800	675	
								19.010	33.878	600	
								29.000	35.935	150	1607
OB29	37.610	1.085	Open Manhole	450	30.000	36.525	150				
OB30	38.075	1.085	Open Manhole	450	31.000	36.990	225				
S126	38.180	2.070	Open Manhole	1500	30.001	36.110	225	30.000	36.185	150	

Noble House, Capital Drive
 Linford Wood
 Milton Keynes, MK14 6QP

AESC Giga Factories
 Plot 2



Date 06/02/2024
 File 20439P ENV3 249.MDX

Designed by LMA
 Checked by MM

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)	Backdrop (mm)
S127	38.525	4.963	Open Manhole	1800	2.012	33.562	900	31.000	36.110	225	
								2.011	33.562	900	
								30.001	35.737	225	1500
INT01	38.600	5.210	Open Manhole	1200	2.013	33.390	900	2.012	33.490	900	100
SDP01	39.000	1.500	Open Manhole	1200	32.000	37.500	375				
RWP01	38.850	1.200	Open Manhole	150	33.000	37.650	150				
S200	38.700	1.427	Open Manhole	1500	33.001	37.273	150	33.000	37.273	150	
RWP03	39.000	1.350	Open Manhole	150	34.000	37.650	150				
S201	38.695	1.537	Open Manhole	1500	34.001	37.158	150	34.000	37.158	150	
RWP04	39.000	1.350	Open Manhole	150	35.000	37.650	150				
BRANCH	38.695	1.730	Junction		34.002	36.965	150	34.001	36.965	150	
								35.000	36.965	150	
RWP05	39.000	1.350	Open Manhole	150	36.000	37.650	150				
BRANCH	38.820	2.048	Junction		34.003	36.772	150	34.002	36.772	150	
								36.000	36.772	150	
RWP02	38.850	1.200	Open Manhole	150	37.000	37.650	150				
S202 (V)	38.820	2.484	Open Manhole	2400	32.001	36.336	525	32.000	37.350	375	864
								33.001	36.711	150	
								34.003	36.711	150	
								37.000	36.711	150	
S203	38.433	2.136	Open Manhole	2100	32.002	36.297	525	32.001	36.297	525	
RWP06	39.000	1.350	Open Manhole	150	38.000	37.650	150				
BRANCH	38.433	2.281	Junction		32.003	36.152	525	32.002	36.152	525	
								38.000	36.527	150	
SWP07	39.000	1.350	Open Manhole	150	39.000	37.650	150				
BRANCH	38.433	2.314	Junction		32.004	36.119	525	32.003	36.119	525	
								39.000	36.494	150	
RWP08	39.000	1.350	Open Manhole	150	40.000	37.650	150				
S204	38.010	2.019	Open Manhole	2100	32.005	35.991	600	32.004	36.066	525	
								40.000	36.441	150	
SDP02	39.000	1.500	Open Manhole	450	41.000	37.500	375				
RWP09	39.000	1.350	Open Manhole	150	42.000	37.650	150				
S205	38.700	1.478	Open Manhole	1500	42.001	37.222	150	42.000	37.222	150	
RWP10	39.000	1.350	Open Manhole	150	43.000	37.650	150				
RWP11	39.000	1.939	Open Manhole	150	44.000	37.061	150				
RWP12	39.000	1.350	Open Manhole	150	45.000	37.650	150				
BRANCH	38.760	1.993	Junction		44.001	36.767	150	44.000	36.767	150	
								45.000	36.767	150	
S206 (V)	38.825	2.564	Open Manhole	2400	41.001	36.261	450	41.000	37.350	375	1014
								42.001	36.561	150	
								43.000	37.061	150	500
								44.001	36.561	150	

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	Pipe Out			Pipes In			Backdrop (mm)
					PN	Invert Level (m)	Diameter (mm)	PN	Invert Level (m)	Diameter (mm)	
S207	38.433	2.863	Open Manhole	2100	32.006	35.570	750	32.005	35.720	600	
								41.001	35.870	450	
RWP13	38.850	1.350	Open Manhole	150	46.000	37.500	150				1000
S208	38.565	3.063	Open Manhole	2100	32.007	35.502	750	32.006	35.502	750	
								46.000	37.102	150	
S209	38.719	3.259	Open Manhole	2100	32.008	35.460	750	32.007	35.460	750	
RWP14	38.850	1.000	Open Manhole	150	47.000	37.850	150				
BRANCH	38.719	3.267	Junction		32.009	35.452	750	32.008	35.452	750	
								47.000	36.052	150	
RWP15	38.850	1.000	Open Manhole	150	48.000	37.850	150				
S210	38.800	1.350	Open Manhole	460	48.001	37.450	150	48.000	37.450	150	
RWP16	38.850	1.000	Open Manhole	150	49.000	37.850	150				
BRANCH	38.800	1.534	Junction		48.002	37.266	150	48.001	37.266	150	
								49.000	37.266	150	
RWP17	39.000	1.200	Open Manhole	150	50.000	37.800	150				
RWP18	39.000	1.200	Open Manhole	150	51.000	37.800	150				
S211	38.815	1.465	Open Manhole	1500	50.001	37.350	150	50.000	37.350	150	
								51.000	37.350	150	
RWP19	38.850	1.415	Open Manhole	150	52.000	37.435	150				
BRANCH	38.600	1.556	Junction		50.002	37.044	150	50.001	37.044	150	
								52.000	37.044	150	
RWP20	38.850	1.000	Open Manhole	150	53.000	37.850	150				
BRANCH	38.250	1.606	Junction		50.003	36.644	150	50.002	36.644	150	
								53.000	36.644	150	
S212	38.300	1.805	Open Manhole	1500	50.004	36.495	150	50.003	36.495	150	
S213	38.719	3.337	Open Manhole	2100	32.010	35.382	750	32.009	35.382	750	1086
								48.002	37.068	150	
								50.004	35.982	150	
RWP21	39.000	1.150	Open Manhole	150	54.000	37.850	150				
BRANCH	38.719	3.356	Junction		32.011	35.363	750	32.010	35.363	750	
								54.000	35.963	150	
RWP22	39.000	1.150	Open Manhole	150	55.000	37.850	150				
BRANCH	38.719	3.394	Junction		32.012	35.325	750	32.011	35.325	750	
								55.000	35.925	150	
RWP23	39.000	1.150	Open Manhole	150	56.000	37.850	150				
BRANCH	38.719	3.432	Junction		32.013	35.288	750	32.012	35.288	750	
								56.000	35.888	150	
RWP24	39.000	1.150	Open Manhole	150	57.000	37.850	150				
BRANCH	38.719	3.468	Junction		32.014	35.251	750	32.013	35.251	750	
								57.000	35.851	150	
RWP25	39.000	1.150	Open Manhole	150	58.000	37.850	150				
BRANCH	38.719	3.508	Junction		32.015	35.211	750	32.014	35.211	750	

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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)	Backdrop (mm)
								58.000	35.811	150	
SDP12	39.000	1.650	Open Manhole	450	59.000	37.350	375				
SDP13	39.000	1.650	Open Manhole	450	60.000	37.350	300				
SDP14	39.000	1.650	Open Manhole	450	61.000	37.350	375				
RWP29	38.850	1.350	Open Manhole	150	62.000	37.500	150				
S214	38.590	1.490	Open Manhole	1500	62.001	37.100	150	62.000	37.100	150	
RWP30	38.850	1.000	Open Manhole	150	63.000	37.850	150				
S215 (V)	38.590	3.095	Open Manhole	2700	61.001	35.495	525	61.000	36.837	375	1192
								62.001	36.995	150	1125
								63.000	35.870	150	
RWP27	38.850	1.500	Open Manhole	150	64.000	37.350	150				
S214a	38.590	1.490	Open Manhole	1500	64.001	37.100	150	64.000	37.100	150	
RWP28	38.850	1.000	Open Manhole	150	65.000	37.850	150				
S216 (V)	38.590	3.275	Open Manhole	2700	59.001	35.315	675	59.000	36.837	375	1222
								60.000	36.837	300	1147
								61.001	35.460	525	
								64.001	36.935	150	1095
								65.000	35.835	150	
RWP26	39.000	1.150	Open Manhole	150	66.000	37.850	150				
S217	38.719	3.695	Open Manhole	2700	32.016	35.024	900	32.015	35.174	750	
								59.001	35.249	675	
								66.000	37.048	150	1274
RWP31	39.000	1.150	Open Manhole	150	67.000	37.850	150				
BRANCH	38.719	3.729	Junction		32.017	34.990	900	32.016	34.990	900	
								67.000	35.740	150	
RWP32	39.000	1.000	Open Manhole	150	68.000	38.000	150				
BRANCH	38.719	3.762	Junction		32.018	34.957	900	32.017	34.957	900	
								68.000	35.707	150	
RWP33	39.000	1.000	Open Manhole	150	69.000	38.000	150				
BRANCH	38.719	3.799	Junction		32.019	34.920	900	32.018	34.920	900	
								69.000	35.670	150	
RWP34	39.000	1.000	Open Manhole	150	70.000	38.000	150				
BRANCH	38.719	3.828	Junction		32.020	34.891	900	32.019	34.891	900	
								70.000	35.641	150	
RWP36	39.000	1.200	Open Manhole	150	71.000	37.800	150				
RWP35	39.000	1.200	Open Manhole	150	72.000	37.800	150				
S218	38.825	1.475	Open Manhole	1500	71.001	37.350	150	71.000	37.350	150	
								72.000	37.350	150	
RWP37	38.850	1.000	Open Manhole	150	73.000	37.850	150				
BRANCH	38.585	1.541	Junction		71.002	37.044	150	71.001	37.044	150	
								73.000	37.044	150	
RWP38	38.850	1.000	Open Manhole	150	74.000	37.850	150				

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	Pipe Out			Pipes In			Backdrop (mm)
					PN	Invert Level (m)	Diameter (mm)	PN	Invert Level (m)	Diameter (mm)	
S219	38.250	1.573	Open Manhole	1500	71.003	36.677	150	71.002	36.677	150	
								74.000	36.677	150	
RWP39	39.000	1.000	Open Manhole	150	75.000	38.000	150				
S220	38.719	3.871	Open Manhole	2100	32.021	34.848	900	32.020	34.848	900	
								71.003	35.598	150	
								75.000	37.272	150	1674
RWP40	39.000	1.000	Open Manhole	150	76.000	38.000	150				
BRANCH	38.719	3.890	Junction		32.022	34.829	900	32.021	34.829	900	
								76.000	35.579	150	
RWP41	39.000	1.000	Open Manhole	150	77.000	38.000	150				
BRANCH	38.719	3.912	Junction		32.023	34.807	900	32.022	34.807	900	
								77.000	35.557	150	
RWP42	39.000	1.000	Open Manhole	150	78.000	38.000	150				
S221 (SUDES)	38.719	3.942	Open Manhole	4000	32.024	34.777	900	32.023	34.777	900	
								78.000	37.201	150	1674
SDP03	39.000	1.500	Open Manhole	450	79.000	37.500	375				
RWP43	38.850	1.200	Open Manhole	150	80.000	37.650	150				
S222	38.700	1.427	Open Manhole	1500	80.001	37.273	150	80.000	37.273	150	
RWP44	38.850	1.200	Open Manhole	150	81.000	37.650	150				
RWP45	39.000	1.350	Open Manhole	150	82.000	37.650	150				
S223	38.695	1.545	Open Manhole	1500	82.001	37.150	150	82.000	37.150	150	
RWP46	39.000	1.350	Open Manhole	150	83.000	37.650	150				
BRANCH	38.695	1.725	Junction		82.002	36.970	150	82.001	36.970	150	
								83.000	36.970	150	
RWP47	39.000	1.350	Open Manhole	150	84.000	37.650	150				
BRANCH	38.825	2.035	Junction		82.003	36.790	150	82.002	36.790	150	
								84.000	36.790	150	
S224 (V)	38.820	2.461	Open Manhole	2100	79.001	36.359	525	79.000	37.350	375	841
								80.001	36.734	150	
								81.000	36.734	150	
								82.003	36.734	150	
S225	38.433	2.166	Open Manhole	1800	79.002	36.267	525	79.001	36.267	525	
RWP48	38.250	0.800	Open Manhole	150	85.000	37.450	150				
BRANCH	38.430	2.207	Junction		79.003	36.223	525	79.002	36.223	525	
								85.000	36.598	150	
RWP49	38.250	1.000	Open Manhole	150	86.000	37.250	150				
BRANCH	38.430	2.252	Junction		79.004	36.178	525	79.003	36.178	525	
								86.000	36.553	150	
RWP50	38.250	1.000	Open Manhole	150	87.000	37.250	150				
BRANCH	38.430	2.297	Junction		79.005	36.133	525	79.004	36.133	525	
								87.000	36.508	150	
RWP51	38.250	1.000	Open Manhole	150	88.000	37.250	150				

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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)	Backdrop (mm)
BRANCH	38.500	2.412	Junction		79.006	36.088	525	79.005	36.088	525	
								88.000	36.463	150	
RWP52	38.700	1.000	Open Manhole	150	89.000	37.700	150				
BRANCH	38.500	2.436	Junction		79.007	36.064	525	79.006	36.064	525	
								89.000	36.439	150	
RWP53	38.555	1.000	Open Manhole	150	90.000	37.555	150				
BRANCH	38.500	2.471	Junction		79.008	36.029	525	79.007	36.029	525	
								90.000	36.404	150	
RWP54	38.100	1.000	Open Manhole	150	91.000	37.100	150				
S226	38.010	2.068	Open Manhole	1800	79.009	35.942	525	79.008	35.942	525	
								91.000	36.317	150	
SDP04	39.000	1.500	Open Manhole	450	92.000	37.500	375				
RWP55	38.850	1.200	Open Manhole	150	93.000	37.650	150				
S227	38.700	1.428	Open Manhole	1500	93.001	37.272	150	93.000	37.272	150	
RWP56	38.850	1.200	Open Manhole	150	94.000	37.650	150				
RWP57	39.000	1.350	Open Manhole	150	95.000	37.650	150				
RWP58	39.000	1.939	Open Manhole	150	96.000	37.061	150				
BRANCH	38.760	1.993	Junction		95.001	36.767	150	95.000	36.767	150	
								96.000	36.767	150	
S228 (V)	38.700	2.364	Open Manhole	2100	92.001	36.336	375	92.000	37.350	375	1014
								93.001	36.561	150	
								94.000	37.061	150	500
								95.001	36.561	150	
S229	38.430	3.018	Open Manhole	2100	79.010	35.412	675	79.009	35.562	525	
								92.001	35.712	375	
S230 (SUDES)	38.600	3.321	Open Manhole	3000	79.011	35.279	675	79.010	35.279	675	
S231	38.700	3.937	Open Manhole	2700	32.025	34.763	-1	32.024	34.763	900	
								79.011	34.988	675	
S232	38.790	5.761	Open Manhole	3000	2.014	33.029	1200	2.013	33.329	900	
								32.025	34.734	-1	1405
S233	38.571	5.664	Open Manhole	2400	2.015	32.907	1200	2.014	32.907	1200	
RWP59	38.800	1.350	Open Manhole	150	97.000	37.450	150				
RWP60	38.800	1.350	Open Manhole	150	98.000	37.450	150				
S234	38.550	5.770	Open Manhole	2400	2.016	32.780	1200	2.015	32.780	1200	
								97.000	35.449	150	1619
								98.000	35.449	150	1619
S235	37.908	5.239	Open Manhole	2400	2.017	32.669	1200	2.016	32.669	1200	
RWP61	38.800	1.050	Open Manhole	150	99.000	37.750	150				
S236	38.660	1.065	Open Manhole	460	99.001	37.595	150	99.000	37.595	150	
RWP62	38.800	1.050	Open Manhole	150	100.000	37.750	150				
BRANCH	38.660	1.222	Junction		99.002	37.438	150	99.001	37.438	150	
								100.000	37.438	150	



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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)	Backdrop (mm)
S237	38.660	1.457	Open Manhole	1500	99.003	37.203	150	99.002	37.203	150	
RWP63	38.800	1.150	Open Manhole	150	101.000	37.650	150				
BRANCH	39.100	2.029	Junction		99.004	37.071	150	99.003	37.071	150	
								101.000	37.071	150	
RWP64	38.800	1.000	Open Manhole	150	102.000	37.800	150				
S238	38.800	3.368	Sealed Manhole	1200	99.005	35.432	225	99.004	36.932	150	1425
								102.000	36.932	150	1425
RWP65	38.256	1.200	Open Manhole	150	103.000	37.056	150				
BRANCH	38.170	3.238	Junction		99.006	34.932	225	99.005	34.932	225	
								103.000	35.007	150	
RWP66	38.246	1.200	Open Manhole	150	104.000	37.046	150				
BRANCH	38.201	3.529	Junction		99.007	34.672	225	99.006	34.672	225	
								104.000	34.747	150	
RWP67	37.806	1.000	Open Manhole	150	105.000	36.806	150				
S239	37.908	5.320	Open Manhole	2700	2.018	32.588	1200	2.017	32.588	1200	
								99.007	34.379	225	816
								105.000	34.799	150	1161
ATT INLET 01	37.908	5.333	Junction		2.019	32.575	1200	2.018	32.575	1200	
SDP05	39.000	1.500	Open Manhole	450	106.000	37.500	375				
S400 (V)	38.647	1.822	Open Manhole	2100	106.001	36.825	525	106.000	37.350	375	375
RWP60	38.850	1.200	Open Manhole	150	107.000	37.650	150				
S401	38.647	2.163	Open Manhole	1800	106.002	36.484	525	106.001	36.484	525	
								107.000	36.859	150	
RWP61	38.850	1.200	Open Manhole	150	108.000	37.650	150				
BRANCH	38.647	2.200	Junction		106.003	36.447	525	106.002	36.447	525	
								108.000	36.822	150	
RWP62	38.850	1.200	Open Manhole	150	109.000	37.650	150				
BRANCH	38.647	2.292	Junction		106.004	36.355	525	106.003	36.355	525	
								109.000	36.730	150	
RWP63	38.850	1.200	Open Manhole	150	110.000	37.650	150				
S402	38.647	2.426	Open Manhole	1800	106.005	36.221	600	106.004	36.296	525	
								110.000	36.671	150	
RWP64	38.850	1.200	Open Manhole	150	111.000	37.650	150				
BRANCH	38.647	2.457	Junction		106.006	36.190	600	106.005	36.190	600	
								111.000	36.640	150	
RWP65	38.850	1.200	Open Manhole	150	112.000	37.650	150				
BRANCH	38.647	2.497	Junction		106.007	36.150	600	106.006	36.150	600	
								112.000	36.600	150	
SDP06	39.000	1.500	Open Manhole	450	113.000	37.500	375				
S403	38.647	2.616	Open Manhole	1800	106.008	36.031	675	106.007	36.106	600	
								113.000	37.350	375	1019
RWP66	38.850	1.200	Open Manhole	150	114.000	37.650	150				

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MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	Pipe Out			Pipes In			Backdrop (mm)
					PN	Invert Level (m)	Diameter (mm)	PN	Invert Level (m)	Diameter (mm)	
BRANCH	38.647	2.642	Junction		106.009	36.005	675	106.008	36.005	675	
								114.000	36.530	150	
RWP67	38.850	1.200	Open Manhole	150	115.000	37.650	150				
BRANCH	38.647	2.677	Junction		106.010	35.970	675	106.009	35.970	675	
								115.000	36.495	150	
RWP68	38.850	1.200	Open Manhole	150	116.000	37.650	150				
BRANCH	38.647	2.715	Junction		106.011	35.932	675	106.010	35.932	675	
								116.000	36.457	150	
RWP69	38.850	1.200	Open Manhole	150	117.000	37.650	150				
S404	38.460	2.596	Open Manhole	1800	106.012	35.864	675	106.011	35.864	675	
								117.000	36.389	150	
RWP70	38.850	1.000	Open Manhole	150	118.000	37.850	150				
BRANCH	38.290	2.452	Junction		106.013	35.838	675	106.012	35.838	675	
								118.000	36.363	150	
S405	38.130	2.315	Open Manhole	1800	106.014	35.815	675	106.013	35.815	675	
RWP71	39.000	1.050	Open Manhole	150	119.000	37.950	150				
S406	38.730	1.255	Open Manhole	1500	119.001	37.475	150	119.000	37.475	150	
RWP72	39.000	1.050	Open Manhole	150	120.000	37.950	150				
BRANCH	38.730	1.575	Junction		119.002	37.155	150	119.001	37.155	150	
								120.000	37.155	150	
RWP73	39.000	1.050	Open Manhole	150	121.000	37.950	150				
S407	38.730	1.935	Open Manhole	1500	119.003	36.795	150	119.002	36.795	150	
								121.000	36.795	150	
S408	38.150	2.602	Open Manhole	1800	106.015	35.548	750	106.014	35.623	675	
								119.003	36.148	150	
RWP74	38.700	1.100	Open Manhole	150	122.000	37.600	150				
S409	38.650	1.094	Open Manhole	1500	122.001	37.556	150	122.000	37.556	150	
RWP75	38.700	1.000	Open Manhole	150	123.000	37.700	150				
BRANCH	38.650	1.164	Junction		122.002	37.486	150	122.001	37.486	150	
								123.000	37.486	150	
RWP76	38.700	1.000	Open Manhole	150	124.000	37.700	150				
BRANCH	38.650	1.234	Junction		122.003	37.416	150	122.002	37.416	150	
								124.000	37.416	150	
SDP7	39.000	1.500	Open Manhole	600	125.000	37.500	450				
SDP8	39.000	1.500	Open Manhole	600	126.000	37.500	450				
S410 (V)	38.650	2.330	Open Manhole	2400	122.004	36.320	750	122.003	37.370	150	450
								125.000	37.350	450	730
								126.000	37.350	450	730
SDP9	39.000	1.500	Open Manhole	600	127.000	37.500	450				
S411 (V)	38.650	2.379	Open Manhole	2100	122.005	36.271	750	122.004	36.271	750	
								127.000	37.350	450	779
RWP77	38.700	1.000	Open Manhole	150	128.000	37.700	150				

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Backdrop (mm)
BRANCH	38.650	2.513	Junction		122.006	36.137	750	122.005	36.137	750	
								128.000	36.737	150	
RWP78	38.700	1.000	Open Manhole	150	129.000	37.700	150				
BRANCH	38.650	2.750	Junction		122.007	35.900	750	122.006	35.900	750	
								129.000	36.500	150	
RWP79	38.850	1.150	Open Manhole	150	130.000	37.700	150				
S412	38.550	1.160	Open Manhole	460	130.001	37.400	150	130.000	37.390	150	
RWP80	38.200	0.950	Open Manhole	150	131.000	37.250	150				
S413	38.750	1.569	Open Manhole	1500	130.002	37.181	150	130.001	37.181	150	
								131.000	37.181	150	
RWP81	38.850	1.000	Open Manhole	150	132.000	37.850	150				
BRANCH	38.750	1.712	Junction		130.003	37.038	150	130.002	37.038	150	
								132.000	37.038	150	
RWP82	38.200	1.000	Open Manhole	150	133.000	37.200	150				
BRANCH	38.750	1.817	Junction		130.004	36.933	150	130.003	36.933	150	
								133.000	36.933	150	
RWP83	38.850	1.000	Open Manhole	150	134.000	37.850	150				
BRANCH	38.600	1.854	Junction		130.005	36.746	150	130.004	36.746	150	
								134.000	36.746	150	
RWP84	38.850	1.000	Open Manhole	150	135.000	37.850	150				
S414	38.750	2.254	Open Manhole	1500	130.006	36.496	150	130.005	36.496	150	
								135.000	36.496	150	
S415	38.650	2.945	Open Manhole	1800	122.008	35.705	750	122.007	35.705	750	
								130.006	36.305	150	
S416	38.000	2.775	Open Manhole	2400	106.016	35.225	900	106.015	35.375	750	
								122.008	35.375	750	
RWP85	38.200	1.350	Open Manhole	150	136.000	36.850	150				
S417	37.750	2.607	Open Manhole	2400	106.017	35.143	900	106.016	35.143	900	
								136.000	35.893	150	
RWP86	38.200	1.350	Open Manhole	150	137.000	36.850	150				
S418	37.750	2.669	Open Manhole	2400	106.018	35.081	900	106.017	35.081	900	
								137.000	35.831	150	
S419	38.450	3.481	Open Manhole	2400	106.019	34.969	900	106.018	34.969	900	
RWP87	38.850	1.000	Open Manhole	150	138.000	37.850	150				
BRANCH	38.490	3.561	Junction		106.020	34.929	900	106.019	34.929	900	
								138.000	35.679	150	
RWP88	38.850	1.000	Open Manhole	150	139.000	37.850	150				
BRANCH	38.490	3.588	Junction		106.021	34.902	900	106.020	34.902	900	
								139.000	35.652	150	
RWP89	38.850	1.000	Open Manhole	150	140.000	37.850	150				
S420	38.490	3.630	Open Manhole	2400	106.022	34.860	900	106.021	34.860	900	
								140.000	35.610	150	

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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)
RWP90	38.850	1.000	Open Manhole	150	141.000	37.850	150				
BRANCH	38.490	3.662	Junction		106.023	34.828	900	106.022	34.828	900	
								141.000	35.578	150	
RWP91	38.850	1.000	Open Manhole	150	142.000	37.850	150				
BRANCH	38.490	3.687	Junction		106.024	34.803	900	106.023	34.803	900	
								142.000	35.553	150	
RWP92	38.850	1.000	Open Manhole	150	143.000	37.850	150				
BRANCH	38.490	3.715	Junction		106.025	34.775	900	106.024	34.775	900	
								143.000	35.525	150	
GULLEY	38.850	1.050	Open Manhole	150	144.000	37.800	150				
S421	38.850	1.258	Open Manhole	1500	144.001	37.592	150	144.000	37.592	150	
S422	38.490	3.737	Open Manhole	2400	106.026	34.753	900	106.025	34.753	900	
								144.001	37.175	150	1672
RWP93	38.850	1.000	Open Manhole	150	145.000	37.850	150				
BRANCH	38.490	3.747	Junction		106.027	34.743	900	106.026	34.743	900	
								145.000	35.493	150	
RWP94	38.850	1.000	Open Manhole	150	146.000	37.850	150				
BRANCH	38.490	3.774	Junction		106.028	34.716	900	106.027	34.716	900	
								146.000	35.466	150	
RWP95	38.850	1.000	Open Manhole	150	147.000	37.850	150				
BRANCH	38.490	3.812	Junction		106.029	34.678	900	106.028	34.678	900	
								147.000	35.428	150	
RWP96	38.850	1.000	Open Manhole	150	148.000	37.850	150				
S423	38.490	3.839	Open Manhole	2400	106.030	34.651	900	106.029	34.651	900	
								148.000	35.401	150	
RWP96	38.850	1.000	Open Manhole	150	149.000	37.850	150				
BRANCH	38.490	3.873	Junction		106.031	34.617	900	106.030	34.617	900	
								149.000	35.367	150	
RWP97	38.850	1.000	Open Manhole	150	150.000	37.850	150				
BRANCH	38.490	3.893	Junction		106.032	34.597	900	106.031	34.597	900	
								150.000	35.347	150	
SDP10	39.000	1.500	Open Manhole	450	151.000	37.500	375				
S424 (V)	38.850	2.025	Open Manhole	2400	151.001	36.825	525	151.000	37.350	375	375
RWP98	38.850	1.000	Open Manhole	150	152.000	37.850	150				
S425	38.850	2.063	Open Manhole	1800	151.002	36.787	525	151.001	36.787	525	
								152.000	37.162	150	
RWP99	38.600	1.000	Open Manhole	150	153.000	37.600	150				
BRANCH	38.580	1.862	Junction		151.003	36.718	525	151.002	36.718	525	
								153.000	37.093	150	
RWP100	38.600	1.000	Open Manhole	150	154.000	37.600	150				
BRANCH	38.550	1.838	Junction		151.004	36.712	525	151.003	36.712	525	
								154.000	37.087	150	

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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)	Backdrop (mm)
S426	38.490	4.025	Open Manhole	2400	106.033	34.465	975	106.032	34.540	900	
								151.004	36.690	525	1775
RWP101	38.850	1.000	Open Manhole	150	155.000	37.850	150				
S427	38.850	1.468	Open Manhole	1500	155.001	37.382	150	155.000	37.382	150	
RWP102	38.600	1.000	Open Manhole	1500	156.000	37.600	150				
BRANCH	38.580	1.545	Junction		155.002	37.035	150	155.001	37.035	150	
								156.000	37.035	150	
RWP103	38.600	1.000	Open Manhole	150	157.000	37.600	150				
BRANCH	38.550	1.546	Junction		155.003	37.004	150	155.002	37.004	150	
								157.000	37.004	150	
S428	38.490	4.214	Open Manhole	2100	106.034	34.276	975	106.033	34.276	975	
								155.003	36.896	150	1795
RWP106	38.850	1.050	Open Manhole	150	158.000	37.800	150				
S429	38.800	1.141	Open Manhole	460	158.001	37.659	150	158.000	37.659	150	
RWP107	38.850	1.000	Open Manhole	150	159.000	37.850	150				
SDP11	39.000	1.500	Open Manhole	450	160.000	37.500	375				
S430 (V)	38.800	1.900	Open Manhole	2100	158.002	36.900	450	158.001	37.200	150	
								159.000	37.200	150	
								160.000	37.350	375	375
S431	38.500	4.425	Open Manhole	2400	106.035	34.075	975	106.034	34.075	975	
								158.002	36.744	450	2144
S432 (SUDES)	38.500	4.483	Open Manhole	3600	106.036	34.017	975	106.035	34.017	975	
ATT INLET 03	38.500	4.507	Junction		106.037	33.993	975	106.036	33.993	975	
OB31	38.555	1.050	Open Manhole	450	161.000	37.505	150				
S300	38.612	1.250	Open Manhole	1500	161.001	37.362	225	161.000	37.437	150	
OB32	38.555	1.050	Open Manhole	450	162.000	37.505	150				
S301	38.612	2.125	Open Manhole	1500	161.002	36.487	225	161.001	36.487	225	
								162.000	36.562	150	
OB33	38.231	1.000	Open Manhole	450	163.000	37.231	150				
BRANCH	38.288	2.207	Junction		161.003	36.081	225	161.002	36.081	225	
								163.000	36.156	150	
S302	38.002	2.149	Open Manhole	1800	161.004	35.853	300	161.003	35.928	225	
OB34	37.690	1.050	Open Manhole	450	164.000	36.640	225				
BRANCH	37.815	2.251	Junction		161.005	35.564	300	161.004	35.564	300	
								164.000	35.639	225	
OB37	37.690	1.125	Open Manhole	450	165.000	36.565	150				
OB35	37.610	1.050	Open Manhole	450	166.000	36.560	150				
S303	38.300	2.740	Open Manhole	1500	166.001	35.560	150	166.000	35.560	150	
OB36	38.075	1.125	Open Manhole	450	167.000	36.950	225				
S304	37.743	2.892	Open Manhole	1500	161.006	34.851	450	161.005	35.001	300	
								165.000	35.151	150	
								166.001	35.151	150	

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Manhole Schedules for Storm

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OB38	37.690	1.125	Open Manhole	450	168.000	36.565	225	167.000	35.076	225	
S305	37.743	3.167	Open Manhole	1500	161.007	34.576	525	161.006	34.651	450	
								168.000	34.876	225	
OB39	37.690	1.125	Open Manhole	450	169.000	36.565	225				
BRANCH	37.743	3.338	Junction		161.008	34.405	525	161.007	34.405	525	
								169.000	34.705	225	
OB40	37.883	1.000	Open Manhole	450	170.000	36.883	150				
S306	37.743	3.385	Open Manhole	1800	161.009	34.358	525	161.008	34.358	525	
								170.000	36.383	150	1650
OB40a	37.883	1.000	Open Manhole	450	171.000	36.883	150				
OB41	37.690	1.125	Open Manhole	450	172.000	36.565	225				
S307	37.743	3.547	Open Manhole	1800	161.010	34.196	600	161.009	34.271	525	
								171.000	36.296	150	1650
								172.000	36.221	225	1650
OB42	37.700	1.000	Open Manhole	450	173.000	36.700	150				
BRANCH	37.970	3.849	Junction		161.011	34.121	600	161.010	34.121	600	
								173.000	34.571	150	
OB43	38.265	1.000	Open Manhole	450	174.000	37.265	150				
S308	38.300	4.241	Open Manhole	1800	161.012	34.059	600	161.011	34.059	600	
								174.000	36.195	150	1686
OB44	38.415	1.000	Open Manhole	450	175.000	37.415	150				
BRANCH	38.463	4.489	Junction		161.013	33.974	600	161.012	33.974	600	
								175.000	34.397	150	
OB45	38.415	1.000	Open Manhole	450	176.000	37.415	225				
S309	38.463	4.735	Open Manhole	1800	161.014	33.728	675	161.013	33.803	600	
								176.000	35.932	225	1754
OB46	38.415	1.000	Open Manhole	450	177.000	37.415	150				
S310	38.463	4.887	Open Manhole	1800	161.015	33.576	675	161.014	33.576	675	
								177.000	35.895	150	1794
OB47	38.365	1.000	Open Manhole	450	178.000	37.365	150				
BRANCH	38.463	4.937	Junction		161.016	33.526	675	161.015	33.526	675	
								178.000	34.051	150	
OB48	38.400	1.000	Open Manhole	450	179.000	37.400	150				
OB49	38.518	1.000	Open Manhole	450	180.000	37.518	150				
S311	38.463	5.063	Open Manhole	1800	161.017	33.400	675	161.016	33.400	675	
								179.000	35.925	150	2000
								180.000	35.925	150	2000
OB50	38.517	1.050	Open Manhole	450	181.000	37.467	150				
S312	38.560	1.267	Open Manhole	1500	181.001	37.293	150	181.000	37.293	150	
OB51	38.517	1.000	Open Manhole	450	182.000	37.517	150				
S313	38.590	1.790	Open Manhole	1500	181.002	36.800	225	181.001	36.875	150	

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								182.000	36.875	150	
OB52	38.480	1.050	Open Manhole	450	183.000	37.430	150				
BRANCH	38.520	2.379	Junction		181.003	36.141	225	181.002	36.141	225	
								183.000	36.216	150	
S314	38.500	2.645	Open Manhole	1500	181.004	35.855	225	181.003	35.855	225	
OB53	38.380	1.000	Open Manhole	450	184.000	37.380	150				
S315	38.600	5.415	Open Manhole	2400	161.018	33.185	750	161.017	33.260	675	
								181.004	35.654	225	1944
								184.000	35.435	150	1650
INT02 (SUDS)	38.600	5.546	Open Manhole	1100	161.019	33.054	750	161.018	33.154	750	100
S316	38.700	5.677	Open Manhole	2100	161.020	33.023	750	161.019	33.023	750	
ATT INLET 02	38.620	5.620	Junction		161.021	33.000	750	161.020	33.000	750	
ATT TANK 01	37.900	5.500	Open Manhole	1200	2.020	32.400	1200	2.019	32.500	1200	100
								106.037	33.846	975	1221
								161.021	32.850	750	
CONNECTION	38.000	5.650	Open Manhole	1200	2.021	32.350	1200	2.020	32.350	1200	
OB60	38.424	1.125	Open Manhole	450	185.000	37.299	300				
OB61	38.262	1.125	Open Manhole	450	186.000	37.137	300				
S500	38.512	1.692	Open Manhole	1500	185.001	36.820	375	185.000	36.895	300	
								186.000	36.895	300	
S501	38.539	1.874	Open Manhole	1800	185.002	36.665	375	185.001	36.665	375	
OB62	38.103	1.125	Open Manhole	450	187.000	36.978	300				
BRANCH	38.500	2.004	Junction		185.003	36.496	375	185.002	36.496	375	
								187.000	36.571	300	
OB63	37.891	1.000	Open Manhole	450	188.000	36.891	150				
OB64	37.819	1.050	Open Manhole	450	189.000	36.769	150				
S502	38.000	1.739	Open Manhole	1500	185.004	36.261	375	185.003	36.261	375	
								188.000	36.486	150	
								189.000	36.486	150	
OB65	37.619	1.050	Open Manhole	450	190.000	36.569	150				
BRANCH	37.500	1.367	Junction		185.005	36.133	375	185.004	36.133	375	
								190.000	36.358	150	
OB66	37.619	1.000	Open Manhole	450	191.000	36.619	150				
S503	37.580	1.571	Open Manhole	1500	185.006	36.009	450	185.005	36.084	375	
								191.000	36.309	150	
OB67	37.239	1.125	Open Manhole	450	192.000	36.114	225				
BRANCH	37.360	1.515	Junction		185.007	35.845	450	185.006	35.845	450	
								192.000	36.070	225	
OB68	37.566	1.000	Open Manhole	450	193.000	36.566	150				
BRANCH	37.600	1.899	Junction		185.008	35.701	450	185.007	35.701	450	
								193.000	36.001	150	
OB69	37.320	0.992	Open Manhole	450	194.000	36.328	150				

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OB70	37.250	1.200	Open Manhole	450	195.000	36.050	300				
S504	37.380	1.500	Open Manhole	1500	194.001	35.880	300	194.000	36.030	150	
								195.000	35.880	300	
OB71	37.228	1.050	Open Manhole	450	196.000	36.178	150				
S505	37.380	1.635	Open Manhole	1500	194.002	35.745	300	194.001	35.745	300	
								196.000	35.895	150	
OB72	37.315	1.000	Open Manhole	450	197.000	36.315	150				
OB73	37.220	1.125	Open Manhole	450	198.000	36.095	300				
S506	37.320	1.833	Open Manhole	1500	194.003	35.487	450	194.002	35.637	300	
								197.000	35.787	150	
								198.000	35.637	300	
OB75	37.347	1.000	Open Manhole	450	199.000	36.347	150				
OB74	37.503	0.992	Open Manhole	450	200.000	36.511	150				
S507	37.535	1.278	Open Manhole	1500	200.001	36.257	150	200.000	36.257	150	
S508	37.410	1.522	Open Manhole	1500	199.001	35.888	150	199.000	35.888	150	
								200.001	35.888	150	
OB76	37.404	0.986	Open Manhole	450	201.000	36.418	150				
S509	37.500	2.172	Open Manhole	1800	194.004	35.328	450	194.003	35.328	450	
								199.001	35.628	150	
								201.000	35.628	150	
S510	37.850	2.603	Open Manhole	1800	194.005	35.247	450	194.004	35.247	450	
OB77	37.649	1.050	Open Manhole	450	202.000	36.599	150				
S511	37.687	2.582	Open Manhole	1800	194.006	35.105	450	194.005	35.105	450	
								202.000	35.405	150	
OB78	37.649	1.050	Open Manhole	450	203.000	36.599	150				
S512	37.687	2.864	Open Manhole	1800	194.007	34.823	525	194.006	34.898	450	
								203.000	35.198	150	
S513	37.687	3.223	Open Manhole	1800	185.009	34.464	750	185.008	35.646	450	882
								194.007	34.688	525	
OB79	38.103	1.085	Open Manhole	450	204.000	37.018	300				
S514	38.200	1.500	Open Manhole	1800	204.001	36.700	300	204.000	36.700	300	
OB80	37.819	1.125	Open Manhole	450	205.000	36.694	225				
BRANCH	37.844	1.275	Junction		204.002	36.569	300	204.001	36.569	300	
								205.000	36.644	225	
S515	37.720	3.383	Open Manhole	2100	185.010	34.337	825	185.009	34.412	750	
								204.002	36.506	300	1644
OB83	37.900	1.050	Open Manhole	450	206.000	36.850	150				
OB84	37.960	1.000	Open Manhole	450	207.000	36.960	150				
OB81	38.139	0.992	Open Manhole	450	208.000	37.147	150				
OB82	38.104	0.992	Open Manhole	450	209.000	37.112	150				
S516	38.210	1.425	Open Manhole	1500	208.001	36.785	225	208.000	36.860	150	
								209.000	36.860	150	

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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)	Backdrop (mm)
GULLY	38.335	1.000	Open Manhole	450	210.000	37.335	150				
BRANCH	38.210	1.599	Junction		208.002	36.611	225	208.001	36.611	225	
								210.000	36.686	150	
S517	38.000	1.576	Open Manhole	1500	206.001	36.424	300	206.000	36.574	150	
								207.000	36.574	150	
								208.002	36.499	225	
OB90A	38.200	1.400	Open Manhole	150	211.000	36.800	150				
OB90	38.200	1.400	Open Manhole	150	212.000	36.800	150				
OB85	37.780	0.992	Open Manhole	450	213.000	36.788	150				
OB86	37.520	0.992	Open Manhole	450	214.000	36.528	150				
S518	37.680	1.500	Open Manhole	1500	213.001	36.180	225	213.000	36.255	150	
								214.000	36.255	150	
OB87	37.720	1.000	Open Manhole	450	215.000	36.720	150				
BRANCH	37.830	1.795	Junction		213.002	36.035	225	213.001	36.035	225	
								215.000	36.110	150	
OB88	37.897	1.050	Open Manhole	450	216.000	36.847	150				
OB89	37.886	1.000	Open Manhole	450	217.000	36.886	150				
S519	37.980	2.188	Open Manhole	1800	213.003	35.792	300	213.002	35.867	225	
								216.000	35.942	150	
								217.000	35.942	150	
S520	37.980	2.333	Open Manhole	1800	206.002	35.647	375	206.001	36.338	300	616
								211.000	35.872	150	
								212.000	35.872	150	
								213.003	35.722	300	
OB92	37.958	1.085	Open Manhole	450	218.000	36.873	150				
OB91	37.350	0.992	Open Manhole	450	219.000	36.358	150				
OB93	37.250	1.085	Open Manhole	450	220.000	36.165	225				
S521	37.500	2.277	Open Manhole	1800	206.003	35.223	450	206.002	35.298	375	
								218.000	35.523	150	
								219.000	35.523	150	
								220.000	35.448	225	
OB94	37.220	0.992	Open Manhole	450	221.000	36.228	225				
BRANCH	37.400	2.586	Junction		206.004	34.814	450	206.003	34.814	450	
								221.000	35.039	225	
OB95	37.600	1.000	Open Manhole	450	222.000	36.600	150				
S522	37.400	3.185	Open Manhole	2400	185.011	34.215	900	185.010	34.290	825	
								206.004	34.673	450	8
								222.000	34.973	150	8
INT03 (SUDES)	37.350	3.481	Open Manhole	1200	185.012	33.869	900	185.011	34.204	900	335
S523	37.700	3.858	Open Manhole	2400	185.013	33.842	900	185.012	33.842	900	
ATT INLET 04	37.700	3.876	Junction		185.014	33.824	900	185.013	33.824	900	
ATT TANK 02	37.300	5.000	Open Manhole	1200	2.022	32.300	525	2.021	32.300	1200	

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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)	Backdrop (mm)
								185.014	32.300	900	
S524	37.285	5.022	Open Manhole	2100	2.023	32.263	525	2.022	32.263	525	
S524 (SUDS)	38.070	5.875	Open Manhole	2100	2.024	32.195	525	2.023	32.195	525	
SWPS01	38.070	5.885	Open Manhole	2475	2.025	32.185	300	2.024	32.185	525	
458	37.350	1.500	Open Manhole	2475	2.026	35.850	450	2.025	36.000	300	
	36.250	0.450	Open Manhole	30		OUTFALL		2.026	35.800	450	

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
OB1	432926.589	558417.741	432926.589	558417.741	Required	
OB2	432904.611	558421.682	432904.611	558421.682	Required	
S100	432913.751	558427.466	432913.751	558427.466	Required	
OB3	432925.361	558446.461	432925.361	558446.461	Required	
OB4	432899.079	558442.204	432899.079	558442.204	Required	
S101	432905.727	558445.210	432905.727	558445.210	Required	
OB5	432872.299	558501.421	432872.299	558501.421	Required	
S102	432878.944	558504.434	432878.944	558504.434	Required	
OB6	432864.396	558581.266	432864.396	558581.266	Required	
OB7	432840.979	558570.676	432840.979	558570.676	Required	
S103	432847.629	558573.683	432847.629	558573.683	Required	
S104	432824.147	558625.608	432824.147	558625.608	Required	
OB8	432797.335	558649.714	432797.335	558649.714	Required	

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MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S105	432799.526	558650.336	432799.526	558650.336	Required	
OB9	432688.508	558872.405	432688.508	558872.405	Required	
S106	432690.788	558873.435	432690.788	558873.435	Required	
OB10	432717.352	558808.623	432717.352	558808.623	Required	
S107	432719.632	558809.653	432719.632	558809.653	Required	
OB11	432746.196	558744.842	432746.196	558744.842	Required	
S108	432748.475	558745.872	432748.475	558745.872	Required	
OB12	432775.038	558681.060	432775.038	558681.060	Required	
S109	432777.318	558682.091	432777.318	558682.091	Required	
S110	432795.765	558667.112	432795.765	558667.112	Required	
OB13	432823.771	558698.324	432823.771	558698.324	Required	
OB14	432851.333	558710.787	432851.333	558710.787	Required	
S111	432831.561	558701.846	432831.561	558701.846	Required	
OB15	432839.471	558684.353	432839.471	558684.353	Required	
S112	432838.524	558686.448	432838.524	558686.448	Required	
OB16	432894.141	558709.075	432894.141	558709.075	Required	
S113	432893.194	558711.171	432893.194	558711.171	Required	

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MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
OB17	432948.811	558733.798	432948.811	558733.798	Required	
S114	432947.863	558735.894	432947.863	558735.894	Required	
OB18	432980.362	558440.108	432980.362	558440.108	Required	
S115	432981.524	558438.114	432981.524	558438.114	Required	
OB19	433044.142	558468.952	433044.142	558468.952	Required	
S116	433045.309	558466.962	433045.309	558466.962	Required	
S117	433099.977	558491.687	433099.977	558491.687	Required	
OB20	433094.724	558508.302	433094.724	558508.302	Required	
OB21	433106.741	558511.163	433106.741	558511.163	Required	
S118	433095.581	558515.144	433095.581	558515.144	Required	
OB22	433075.697	558514.447	433075.697	558514.447	Required	
OB23	433096.264	558531.345	433096.264	558531.345	Required	
S119	433089.604	558528.361	433089.604	558528.361	Required	
OB24	433069.474	558590.588	433069.474	558590.588	Required	
S120	433062.822	558587.580	433062.822	558587.580	Required	
OB25	433038.155	558659.843	433038.155	558659.843	Required	
OB26	433014.733	558649.251	433014.733	558649.251	Required	

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MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S121	433031.495	558656.823	433031.495	558656.823	Required	
S122	433007.816	558709.221	433007.816	558709.221	Required	
S123	433023.281	558739.575	433023.281	558739.575	Required	
OB27	433019.801	558772.268	433019.801	558772.268	Required	
S124	433011.859	558764.834	433011.859	558764.834	Required	
OB28	432973.915	558745.150	432973.915	558745.150	Required	
S125	432972.967	558747.246	432972.967	558747.246	Required	
OB29	432942.450	558751.993	432942.450	558751.993	Required	
OB30	432970.011	558764.456	432970.011	558764.456	Required	
S126	432966.003	558762.644	432966.003	558762.644	Required	
S127	432969.744	558754.373	432969.744	558754.373	Required	
INT01	432990.283	558763.661	432990.283	558763.661	Required	
SDP01	432919.486	558478.216	432919.486	558478.216	Required	
RWP01	432919.507	558459.758	432919.507	558459.758	Required	
S200	432915.992	558461.130	432915.992	558461.130	Required	
RWP03	432903.268	558511.567	432903.268	558511.567	Required	
S201	432896.342	558504.581	432896.342	558504.581	Required	

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MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
RWP04	432909.233	558498.376	432909.233	558498.376	Required	
BRANCH	432902.308	558491.389			No Entry	
RWP05	432915.198	558485.184	432915.198	558485.184	Required	
BRANCH	432908.273	558478.198			No Entry	
RWP02	432913.579	558472.867	432913.579	558472.867	Required	
S202 (V)	432910.168	558474.002	432910.168	558474.002	Required	
S203	432897.585	558468.312	432897.585	558468.312	Required	
RWP06	432883.150	558517.354	432883.150	558517.354	Required	
BRANCH	432876.721	558514.447			No Entry	
SWP07	432878.324	558528.024	432878.324	558528.024	Required	
BRANCH	432871.896	558525.117			No Entry	
RWP08	432873.291	558539.155	432873.291	558539.155	Required	
S204	432864.209	558542.117	432864.209	558542.117	Required	
SDP02	432846.966	558638.581	432846.966	558638.581	Required	
RWP09	432846.931	558619.989	432846.931	558619.989	Required	
S205	432843.469	558621.496	432843.469	558621.496	Required	
RWP10	432840.921	558633.278	432840.921	558633.278	Required	

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MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
RWP11	432841.124	558648.969	432841.124	558648.969	Required	
RWP12	432844.563	558641.365	432844.563	558641.365	Required	
BRANCH	432839.082	558640.388			No Entry	
S206 (V)	432837.648	558634.366	432837.648	558634.366	Required	
S207	432825.065	558628.677	432825.065	558628.677	Required	
RWP13	432810.631	558648.035	432810.631	558648.035	Required	
S208	432805.154	558647.376	432805.154	558647.376	Required	
S209	432800.053	558663.231	432800.053	558663.231	Required	
RWP14	432804.439	558661.727	432804.439	558661.727	Required	
BRANCH	432803.130	558664.623			No Entry	
RWP15	432829.729	558656.646	432829.729	558656.646	Required	
S210	432829.144	558666.628	432829.144	558666.628	Required	
RWP16	432823.533	558670.348	432823.533	558670.348	Required	
BRANCH	432828.875	558671.208			No Entry	
RWP17	432851.882	558727.185	432851.882	558727.185	Required	
RWP18	432849.406	558732.646	432849.406	558732.646	Required	
S211	432841.369	558730.907	432841.369	558730.907	Required	

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MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
RWP19	432828.933	558728.754	432828.933	558728.754	Required	
BRANCH	432830.229	558725.870			No Entry	
RWP20	432814.359	558722.163	432814.359	558722.163	Required	
BRANCH	432815.656	558719.279			No Entry	
S212	432810.243	558716.832	432810.243	558716.832	Required	
S213	432828.636	558676.158	432828.636	558676.158	Required	
RWP21	432837.347	558675.250	432837.347	558675.250	Required	
BRANCH	432835.527	558679.273			No Entry	
RWP22	432851.014	558681.430	432851.014	558681.430	Required	
BRANCH	432849.195	558685.454			No Entry	
RWP23	432864.682	558687.611	432864.682	558687.611	Required	
BRANCH	432862.862	558691.635			No Entry	
RWP24	432878.349	558693.792	432878.349	558693.792	Required	
BRANCH	432876.529	558697.815			No Entry	
RWP25	432892.796	558700.325	432892.796	558700.325	Required	
BRANCH	432890.976	558704.348			No Entry	
SDP12	432897.497	558724.810	432897.497	558724.810	Required	

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MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
SDP13	432898.317	558725.181	432898.317	558725.181	Required	
SDP14	432904.240	558727.860	432904.240	558727.860	Required	
RWP29	432922.047	558730.062	432922.047	558730.062	Required	
S214	432923.392	558727.089	432923.392	558727.089	Required	
RWP30	432908.670	558724.013	432908.670	558724.013	Required	
S215 (V)	432907.781	558720.029	432907.781	558720.029	Required	
RWP27	432881.335	558711.652	432881.335	558711.652	Required	
S214a	432882.680	558708.678	432882.680	558708.678	Required	
RWP28	432894.712	558717.701	432894.712	558717.701	Required	
S216 (V)	432901.439	558717.162	432901.439	558717.162	Required	
RWP26	432906.463	558706.505	432906.463	558706.505	Required	
S217	432904.473	558710.452	432904.309	558710.815	Required	
RWP31	432920.120	558712.681	432920.120	558712.681	Required	
BRANCH	432918.300	558716.705			No Entry	
RWP32	432933.787	558718.862	432933.787	558718.862	Required	
BRANCH	432931.968	558722.886			No Entry	
RWP33	432949.132	558725.801	432949.132	558725.801	Required	

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MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
BRANCH	432947.313	558729.825			No Entry	
RWP34	432961.122	558731.223	432961.122	558731.223	Required	
BRANCH	432959.303	558735.247			No Entry	
RWP36	432927.344	558767.891	432927.344	558767.891	Required	
RWP35	432929.808	558762.425	432929.808	558762.425	Required	
S218	432933.957	558772.777	432933.957	558772.777	Required	
RWP37	432943.787	558780.693	432943.787	558780.693	Required	
BRANCH	432945.097	558777.815			No Entry	
RWP38	432958.361	558787.283	432958.361	558787.283	Required	
S219	432958.491	558783.867	432958.491	558783.867	Required	
RWP39	432977.382	558739.667	432977.382	558739.667	Required	
S220	432976.883	558743.197	432976.883	558743.197	Required	
RWP40	432986.117	558743.617	432986.117	558743.617	Required	
BRANCH	432984.707	558746.735			No Entry	
RWP41	432994.990	558747.629	432994.990	558747.629	Required	
BRANCH	432993.580	558750.748			No Entry	
RWP42	433003.725	558751.579	433003.725	558751.579	Required	

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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S221 (SUDS)	433005.737	558756.245	433005.737	558756.245	Required	
SDP03	433055.734	558539.830	433055.734	558539.830	Required	
RWP43	433069.579	558527.624	433069.579	558527.624	Required	
S222	433070.871	558531.169	433070.871	558531.169	Required	
RWP44	433063.651	558540.733	433063.651	558540.733	Required	
RWP45	433041.402	558574.035	433041.402	558574.035	Required	
S223	433051.222	558574.620	433051.222	558574.620	Required	
RWP46	433047.368	558560.844	433047.368	558560.844	Required	
BRANCH	433057.188	558561.429			No Entry	
RWP47	433053.333	558547.651	433053.333	558547.651	Required	
BRANCH	433063.153	558548.237			No Entry	
S224 (V)	433065.052	558544.043	433065.052	558544.043	Required	
S225	433077.634	558549.734	433077.634	558549.734	Required	
RWP48	433083.956	558564.764	433083.956	558564.764	Required	
BRANCH	433073.065	558559.839			No Entry	
RWP49	433079.352	558574.942	433079.352	558574.942	Required	
BRANCH	433068.462	558570.017			No Entry	

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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
RWP50	433074.752	558585.119	433074.752	558585.119	Required	
BRANCH	433063.860	558580.193			No Entry	
RWP51	433070.147	558595.293	433070.147	558595.293	Required	
BRANCH	433059.258	558590.369			No Entry	
RWP52	433050.343	558592.962	433050.343	558592.962	Required	
BRANCH	433056.771	558595.869			No Entry	
RWP53	433046.781	558600.840	433046.781	558600.840	Required	
BRANCH	433053.209	558603.746			No Entry	
RWP54	433040.484	558614.764	433040.484	558614.764	Required	
S226	433044.258	558623.539	433044.258	558623.539	Required	
SDP04	432983.214	558700.195	432983.214	558700.195	Required	
RWP55	432997.197	558687.942	432997.197	558687.942	Required	
S227	432998.353	558691.536	432998.353	558691.536	Required	
RWP56	432991.188	558701.232	432991.188	558701.232	Required	
RWP57	432982.711	558703.838	432982.711	558703.838	Required	
RWP58	432979.272	558711.443	432979.272	558711.443	Required	
BRANCH	432987.063	558707.308			No Entry	

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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S228 (V)	432992.532	558704.409	432992.532	558704.409	Required	
S229	433005.114	558710.099	433005.114	558710.099	Required	
S230 (SUDS)	433020.020	558739.866	433020.020	558739.866	Required	
S231	433011.445	558758.827	433011.445	558758.827	Required	
S232	433005.986	558770.762	433005.986	558770.762	Required	
S233	433055.924	558793.345	433055.924	558793.345	Required	
RWP59	433024.522	558832.965	433024.522	558832.965	Required	
RWP60	433017.929	558847.544	433017.929	558847.544	Required	
S234	433032.433	558845.291	433032.433	558845.291	Required	
S235	433077.790	558865.801	433077.790	558865.801	Required	
RWP61	433001.179	558822.409	433001.179	558822.409	Required	
S236	432997.685	558824.102	432997.685	558824.102	Required	
RWP62	432994.586	558836.987	432994.586	558836.987	Required	
BRANCH	432991.198	558838.449			No Entry	
S237	432981.520	558859.850	432981.520	558859.850	Required	
RWP63	432992.536	558863.128	432992.536	558863.128	Required	
BRANCH	432993.065	558866.322			No Entry	

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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
RWP64	433006.750	558869.555	433006.750	558869.555	Required	
S238	433005.149	558873.097			No Entry	
RWP65	433030.532	558880.310	433030.532	558880.310	Required	
BRANCH	433032.471	558885.453			No Entry	
RWP66	433044.746	558886.738	433044.746	558886.738	Required	
BRANCH	433046.686	558891.881			No Entry	
RWP67	433058.960	558893.166	433058.960	558893.166	Required	
S239	433062.718	558899.131	433062.718	558899.131	Required	
ATT INLET 01	433060.308	558904.459			No Entry	
SDP05	432744.298	558787.958	432744.298	558787.958	Required	
S400 (V)	432730.225	558793.266	432730.225	558793.266	Required	
RWP60	432696.876	558878.720	432696.876	558878.720	Required	
S401	432692.481	558876.732	432692.481	558876.732	Required	
RWP61	432692.350	558888.742	432692.350	558888.742	Required	
BRANCH	432687.950	558886.753			No Entry	
RWP62	432683.318	558915.046	432683.318	558915.046	Required	
BRANCH	432676.541	558911.981			No Entry	

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MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
RWP63	432673.596	558930.200	432673.596	558930.200	Required	
S402	432669.201	558928.213	432669.201	558928.213	Required	
RWP64	432669.069	558940.223	432669.069	558940.223	Required	
BRANCH	432664.669	558938.233			No Entry	
RWP65	432665.741	558953.914	432665.741	558953.914	Required	
BRANCH	432658.964	558950.849			No Entry	
SDP06	432662.304	558969.272	432662.304	558969.272	Required	
S403	432652.614	558964.891	432652.614	558964.891	Required	
RWP66	432652.668	558976.463	432652.668	558976.463	Required	
BRANCH	432648.279	558974.478			No Entry	
RWP67	432646.907	558989.216	432646.907	558989.216	Required	
BRANCH	432642.513	558987.228			No Entry	
RWP68	432640.728	559002.886	432640.728	559002.886	Required	
BRANCH	432636.331	559000.898			No Entry	
RWP69	432635.715	559028.531	432635.715	559028.531	Required	
S404	432625.064	559025.813	432625.064	559025.813	Required	
RWP70	432630.822	559039.351	432630.822	559039.351	Required	

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MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
BRANCH	432622.245	559037.162			No Entry	
S405	432619.790	559047.045	432619.790	559047.045	Required	
RWP71	432682.274	559032.665	432682.274	559032.665	Required	
S406	432680.819	559038.998	432680.819	559038.998	Required	
RWP72	432696.906	559039.282	432696.906	559039.282	Required	
BRANCH	432695.450	559045.614			No Entry	
RWP73	432711.451	559045.860	432711.451	559045.860	Required	
S407	432711.712	559052.968	432711.712	559052.968	Required	
S408	432698.330	559082.562	432698.330	559082.562	Required	
RWP74	432721.521	559075.006	432721.521	559075.006	Required	
S409	432720.114	559077.982	432720.114	559077.982	Required	
RWP75	432727.863	559077.874	432727.863	559077.874	Required	
BRANCH	432726.507	559080.873			No Entry	
RWP76	432734.205	559080.742	432734.205	559080.742	Required	
BRANCH	432732.849	559083.740			No Entry	
SDP7	432747.258	559062.158	432747.258	559062.158	Required	
SDP8	432748.078	559062.529	432748.078	559062.529	Required	

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MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S410 (V)	432737.067	559085.648	432737.067	559085.648	Required	
SDP9	432748.898	559062.900	432748.898	559062.900	Required	
S411 (V)	432740.763	559087.319	432740.763	559087.319	Required	
RWP77	432751.381	559080.277	432751.381	559080.277	Required	
BRANCH	432746.934	559090.110			No Entry	
RWP78	432762.315	559085.221	432762.315	559085.221	Required	
BRANCH	432757.868	559095.055			No Entry	
RWP79	432849.796	559134.241	432849.796	559134.241	Required	
S412	432842.744	559131.053	432842.744	559131.053	Required	
RWP80	432834.026	559116.626	432834.026	559116.626	Required	
S413	432837.080	559109.880	432837.080	559109.880	Required	
RWP81	432826.140	559099.325	432826.140	559099.325	Required	
BRANCH	432824.035	559103.981			No Entry	
RWP82	432811.383	559106.384	432811.383	559106.384	Required	
BRANCH	432814.434	559099.639			No Entry	
RWP83	432799.525	559087.289	432799.525	559087.289	Required	
BRANCH	432797.419	559091.945			No Entry	

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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
RWP84	432776.744	559076.987	432776.744	559076.987	Required	
S414	432774.638	559081.643	432774.638	559081.643	Required	
S415	432766.756	559099.074	432766.756	559099.074	Required	
S416	432769.402	559114.698	432769.402	559114.698	Required	
RWP85	432797.786	559136.453	432797.786	559136.453	Required	
S417	432795.895	559140.632	432795.895	559140.632	Required	
RWP86	432820.428	559146.694	432820.428	559146.694	Required	
S418	432821.439	559152.183	432821.439	559152.183	Required	
S419	432871.334	559145.716	432871.334	559145.716	Required	
RWP87	432872.461	559126.319	432872.461	559126.319	Required	
BRANCH	432878.807	559129.189			No Entry	
RWP88	432877.447	559115.294	432877.447	559115.294	Required	
BRANCH	432883.793	559118.163			No Entry	
RWP89	432885.235	559098.073	432885.235	559098.073	Required	
S420	432891.581	559100.942	432891.581	559100.942	Required	
RWP90	432891.203	559085.078	432891.203	559085.078	Required	
BRANCH	432897.472	559087.913			No Entry	

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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
RWP91	432895.777	559074.964	432895.777	559074.964	Required	
BRANCH	432902.047	559077.799			No Entry	
RWP92	432901.029	559063.348	432901.029	559063.348	Required	
BRANCH	432907.298	559066.183			No Entry	
GULLEY	432886.710	559046.209	432886.710	559046.209	Required	
S421	432891.455	559048.355	432891.455	559048.355	Required	
S422	432911.301	559057.330	432911.301	559057.330	Required	
RWP93	432909.582	559051.725	432909.582	559051.725	Required	
BRANCH	432913.114	559053.322			No Entry	
RWP94	432914.510	559040.827	432914.510	559040.827	Required	
BRANCH	432918.041	559042.424			No Entry	
RWP95	432921.579	559025.197	432921.579	559025.197	Required	
BRANCH	432925.110	559026.794			No Entry	
RWP96	432926.507	559014.299	432926.507	559014.299	Required	
S423	432930.035	559015.895	432930.035	559015.895	Required	
RWP96	432929.725	558999.064	432929.725	558999.064	Required	
BRANCH	432936.303	559002.039			No Entry	

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MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
RWP97	432933.431	558990.869	432933.431	558990.869	Required	
BRANCH	432940.008	558993.844			No Entry	
SDP10	432917.074	558967.651	432917.074	558967.651	Required	
S424 (V)	432923.746	558970.668	432923.746	558970.668	Required	
RWP98	432929.032	558955.615	432929.032	558955.615	Required	
S425	432928.454	558960.258	432928.454	558960.258	Required	
RWP99	432943.643	558962.219	432943.643	558962.219	Required	
BRANCH	432944.247	558967.399			No Entry	
RWP100	432944.958	558961.933	432944.958	558961.933	Required	
BRANCH	432945.670	558968.042			No Entry	
S426	432950.656	558970.297	432950.656	558970.297	Required	
RWP101	432942.838	558925.087	432942.838	558925.087	Required	
S427	432945.943	558921.587	432945.943	558921.587	Required	
RWP102	432957.448	558931.694	432957.448	558931.694	Required	
BRANCH	432961.735	558928.728			No Entry	
RWP103	432958.100	558932.871	432958.100	558932.871	Required	
BRANCH	432963.158	558929.372			No Entry	

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MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S428	432968.142	558931.626	432968.142	558931.626	Required	
RWP106	432969.314	558865.700	432969.314	558865.700	Required	
S429	432970.830	558868.871	432970.830	558868.871	Required	
RWP107	432963.033	558879.590	432963.033	558879.590	Required	
SDP11	432955.193	558883.329	432955.193	558883.329	Required	
S430 (V)	432965.483	558880.698	432965.483	558880.698	Required	
S431	432986.813	558890.343	432986.813	558890.343	Required	
S432 (SUDS)	432998.664	558895.703	432998.664	558895.703	Required	
ATT INLET 03	433003.496	558897.888			No Entry	
OB31	432659.667	558936.187	432659.667	558936.187	Required	
S300	432662.766	558937.587	432662.766	558937.587	Required	
OB32	432630.822	558999.969	432630.822	558999.969	Required	
S301	432633.923	559001.369	432633.923	559001.369	Required	
OB33	432614.115	559036.916	432614.115	559036.916	Required	
BRANCH	432617.214	559038.318			No Entry	
S302	432610.902	559052.276	432610.902	559052.276	Required	
OB34	432626.631	559070.013	432626.631	559070.013	Required	

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MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
BRANCH	432630.383	559063.505			No Entry	
OB37	432666.855	559088.203	432666.855	559088.203	Required	
OB35	432664.368	559031.919	432664.368	559031.919	Required	
S303	432658.187	559045.587	432658.187	559045.587	Required	
OB36	432673.082	559074.437	432673.082	559074.437	Required	
S304	432668.174	559085.289	432668.174	559085.289	Required	
OB38	432721.525	559112.927	432721.525	559112.927	Required	
S305	432722.844	559110.011	432722.844	559110.011	Required	
OB39	432776.196	559137.648	432776.196	559137.648	Required	
BRANCH	432777.514	559134.734			No Entry	
OB40	432796.277	559133.479	432796.277	559133.479	Required	
S306	432792.620	559141.565	432792.620	559141.565	Required	
OB40a	432822.974	559145.552	432822.974	559145.552	Required	
OB41	432822.949	559158.796	432822.949	559158.796	Required	
S307	432824.270	559155.878	432824.270	559155.878	Required	
OB42	432846.683	559164.701	432846.683	559164.701	Required	
BRANCH	432850.263	559152.106			No Entry	

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MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
OB43	432874.538	559150.523	432874.538	559150.523	Required	
S308	432872.070	559148.941	432872.070	559148.941	Required	
OB44	432886.900	559123.187	432886.900	559123.187	Required	
BRANCH	432884.256	559121.993			No Entry	
OB45	432911.622	559068.518	432911.622	559068.518	Required	
S309	432908.977	559067.322	432908.977	559067.322	Required	
OB46	432933.497	559020.146	432933.497	559020.146	Required	
S310	432930.851	559018.949	432930.851	559018.949	Required	
OB47	432943.522	559005.259	432943.522	559005.259	Required	
BRANCH	432938.141	559002.825			No Entry	
OB48	432960.032	558965.779	432960.032	558965.779	Required	
OB49	432950.521	558961.895	432950.521	558961.895	Required	
S311	432956.268	558962.738	432956.268	558962.738	Required	
OB50	432990.371	558836.638	432990.371	558836.638	Required	
S312	432987.082	558837.796	432987.082	558837.796	Required	
OB51	432979.883	558859.828	432979.883	558859.828	Required	
S313	432976.817	558860.494	432976.817	558860.494	Required	

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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
OB52	432976.741	558897.641	432976.741	558897.641	Required	
BRANCH	432973.877	558899.942			No Entry	
S314	432972.619	558917.052	432972.619	558917.052	Required	
OB53	432978.487	558925.176	432978.487	558925.176	Required	
S315	432983.602	558922.019	432983.602	558922.019	Required	
INT02 (SUDS)	432988.085	558912.105	432988.085	558912.105	Required	
S316	432992.568	558902.192	432992.568	558902.192	Required	
ATT INLET 02	433000.025	558905.564			No Entry	
ATT TANK 01	433031.496	558915.575	433031.496	558915.575	Required	
CONNECTION	433071.724	558933.364	433071.724	558933.364	Required	
OB60	433032.126	558811.272	433032.126	558811.272	Required	
OB61	433056.773	558828.125	433056.773	558828.125	Required	
S500	433045.361	558822.965	433045.361	558822.965	Required	
S501	433037.081	558841.277	433037.081	558841.277	Required	
OB62	433050.778	558852.302	433050.778	558852.302	Required	
BRANCH	433057.063	558850.314			No Entry	
OB63	433083.187	558857.931	433083.187	558857.931	Required	

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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
OB64	433083.907	558865.198	433083.907	558865.198	Required	
S502	433084.937	558862.920	433084.937	558862.920	Required	
OB65	433100.693	558866.423	433100.693	558866.423	Required	
BRANCH	433101.627	558870.468			No Entry	
OB66	433125.204	558877.507	433125.204	558877.507	Required	
S503	433107.953	558873.328	433107.953	558873.328	Required	
OB67	433103.861	558886.843	433103.861	558886.843	Required	
BRANCH	433101.195	558888.271			No Entry	
OB68	433097.924	558899.965	433097.924	558899.965	Required	
BRANCH	433095.262	558901.392			No Entry	
OB69	433175.295	559011.792	433175.295	559011.792	Required	
OB70	433185.222	558998.157	433185.222	558998.157	Required	
S504	433185.773	559005.801	433185.773	559005.801	Required	
OB71	433204.560	559010.920	433204.560	559010.920	Required	
S505	433204.592	559003.821	433204.592	559003.821	Required	
OB72	433207.826	558997.963	433207.826	558997.963	Required	
OB73	433204.644	558985.757	433204.644	558985.757	Required	

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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S506	433206.864	558993.301	433206.864	558993.301	Required	
OB75	433236.172	559012.767	433236.172	559012.767	Required	
OB74	433266.279	559006.397	433266.279	559006.397	Required	
S507	433260.808	559003.197	433260.808	559003.197	Required	
S508	433231.902	559009.350	433231.902	559009.350	Required	
OB76	433225.201	558994.288	433225.201	558994.288	Required	
S509	433221.476	558991.320	433221.476	558991.320	Required	
S510	433231.544	558969.057	433231.544	558969.057	Required	
OB77	433196.295	558950.373	433196.295	558950.373	Required	
S511	433192.774	558951.525	433192.774	558951.525	Required	
OB78	433137.257	558923.675	433137.257	558923.675	Required	
S512	433136.195	558925.939	433136.195	558925.939	Required	
S513	433092.993	558906.402	433092.993	558906.402	Required	
OB79	433034.215	558888.928	433034.215	558888.928	Required	
S514	433047.878	558895.120	433047.878	558895.120	Required	
OB80	433067.878	558900.574	433067.878	558900.574	Required	
BRANCH	433068.834	558904.596			No Entry	

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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
S515	433079.040	558909.212	433079.040	558909.212	Required	
OB83	433025.505	558975.394	433025.505	558975.394	Required	
OB84	433036.012	558952.165	433036.012	558952.165	Required	
OB81	432986.872	558955.527	432986.872	558955.527	Required	
OB82	432996.934	558934.488	432996.934	558934.488	Required	
S516	432994.485	558939.901	432994.485	558939.901	Required	
GULLY	433008.991	558954.115	433008.991	558954.115	Required	
BRANCH	433018.305	558950.673			No Entry	
S517	433033.558	558957.584	433033.558	558957.584	Required	
OB90A	433048.401	558967.338	433048.401	558967.338	Required	
OB90	433054.257	558969.987	433054.257	558969.987	Required	
OB85	433120.022	559004.536	433120.022	559004.536	Required	
OB86	433137.426	558998.045	433137.426	558998.045	Required	
S518	433122.974	558998.006	433122.974	558998.006	Required	
OB87	433102.575	558982.279	433102.575	558982.279	Required	
BRANCH	433096.510	558986.039			No Entry	
OB88	433061.001	558990.627	433061.001	558990.627	Required	

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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
OB89	433068.408	558966.822	433068.408	558966.822	Required	
S519	433065.969	558972.211	433065.969	558972.211	Required	
S520	433053.161	558966.436	433053.161	558966.436	Required	
OB92	433044.528	558943.417	433044.528	558943.417	Required	
OB91	433062.160	558950.842	433062.160	558950.842	Required	
OB93	433064.561	558948.630	433064.561	558948.630	Required	
S521	433061.782	558947.373	433061.782	558947.373	Required	
OB94	433080.553	558929.641	433080.553	558929.641	Required	
BRANCH	433072.382	558923.935			No Entry	
OB95	433069.621	558919.844	433069.621	558919.844	Required	
S522	433073.685	558921.052	433073.685	558921.052	Required	
INT03 (SUDS)	433077.734	558922.875	433077.734	558922.875	Required	
S523	433082.103	558913.215	433082.103	558913.215	Required	
ATT INLET 04	433088.185	558915.965			No Entry	
ATT TANK 02	433089.283	558941.205	433089.283	558941.205	Required	
S524	433083.177	558954.707	433083.177	558954.707	Required	
S524 (SUDS)	433071.983	558979.461	433071.983	558979.461	Required	

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Manhole Schedules for Storm

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
SWPS01	433075.471	558981.038	433075.471	558981.038	Required	
458	432963.975	559109.920	432963.975	559109.920	Required	
	432966.471	559111.049			No Entry	

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D, L (mm)	W (mm)
2.026		36.250	35.800	34.600	30	0

Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m ³ /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 Offline Controls 0 Number of Time/Area Diagrams 0
 Number of Online Controls 1 Number of Storage Structures 2 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	5	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	18.300	Storm Duration (mins)	30
Ratio R	0.350		

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Online Controls for Storm

Pump Manhole: SWPS01, DS/PN: 2.025, Volume (m³): 28.6

Invert Level (m) 32.185

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.200	68.2000	1.400	138.4000	2.600	165.3000	3.800	165.3000	5.000	165.3000
0.400	68.2000	1.600	138.4000	2.800	165.3000	4.000	165.3000	5.200	165.3000
0.633	68.2000	1.801	165.3000	3.000	165.3000	4.200	165.3000	5.400	165.3000
0.650	138.4000	2.000	165.3000	3.200	165.3000	4.400	165.3000	5.600	165.3000
1.000	138.4000	2.200	165.3000	3.400	165.3000	4.600	165.3000	5.800	165.3000
1.200	138.4000	2.400	165.3000	3.600	165.3000	4.800	165.3000	6.000	165.3000

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Storage Structures for Storm

Tank or Pond Manhole: ATT TANK 01, DS/PN: 2.020

Invert Level (m) 32.400

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	2808.9	2.490	2808.9	2.491	0.0

Tank or Pond Manhole: ATT TANK 02, DS/PN: 2.022

Invert Level (m) 32.300

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	5517.0	2.490	5517.0	2.491	0.0



1 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 Offline Controls 0 Number of Time/Area Diagrams 0
 Number of Online Controls 1 Number of Storage Structures 2 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 18.300 Cv (Summer) 1.000
 Region England and Wales Ratio R 0.350 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status OFF
 DVD Status ON
 Inertia Status ON

Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 240, 360
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 45

PN	US/MH		Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)
	Name	Storm									
2.000	OB1	15 Summer	1	+0%	100/15 Summer				37.717	-0.098	0.000
3.000	OB2	15 Summer	1	+0%	30/15 Summer	100/15 Summer			37.388	-0.080	0.000
2.001	S100	15 Summer	1	+0%	100/15 Summer	100/15 Summer			37.094	-0.158	0.000
4.000	OB3	15 Summer	1	+0%	100/15 Summer	100/15 Summer			36.613	-0.137	0.000
5.000	OB4	15 Summer	1	+0%	100/15 Summer	100/15 Summer			37.189	-0.171	0.000
2.002	S101	15 Summer	1	+0%	100/15 Summer	100/15 Summer			36.272	-0.216	0.000
6.000	OB5	15 Summer	1	+0%	100/15 Summer	100/30 Summer			37.209	-0.226	0.000
2.003	S102	15 Summer	1	+0%	30/15 Summer				35.846	-0.271	0.000
7.000	OB6	15 Summer	1	+0%	30/15 Summer	100/15 Summer			36.580	-0.130	0.000
8.000	OB7	15 Summer	1	+0%	100/15 Summer	100/15 Summer			37.169	-0.151	0.000
2.004	S103	15 Summer	1	+0%	30/15 Summer				35.336	-0.173	0.000
2.005	S104	15 Summer	1	+0%	30/15 Summer				35.184	-0.178	0.000
9.000	OB8	15 Summer	1	+0%	100/15 Summer				37.451	-0.107	0.000
2.006	S105	15 Summer	1	+0%	30/15 Summer				35.013	-0.258	0.000
10.000	OB9	15 Summer	1	+0%	30/15 Summer	100/15 Summer			37.660	-0.053	0.000
10.001	S106	15 Summer	1	+0%	100/15 Summer				37.465	-0.148	0.000
11.000	OB10	15 Summer	1	+0%	100/15 Summer	100/30 Summer			37.612	-0.176	0.000
10.002	S107	15 Summer	1	+0%	30/15 Summer				36.579	-0.101	0.000
12.000	OB11	15 Summer	1	+0%	100/15 Summer				37.606	-0.182	0.000
10.003	S108	15 Summer	1	+0%	100/15 Summer				35.822	-0.158	0.000
13.000	OB12	15 Summer	1	+0%	100/15 Winter				37.597	-0.116	0.000
10.004	S109	15 Summer	1	+0%	30/15 Summer				35.193	-0.227	0.000
2.007	S110	15 Summer	1	+0%	30/15 Summer				34.882	-0.340	0.000
14.000	OB13	15 Summer	1	+0%	100/15 Summer	100/15 Summer			37.058	-0.157	0.000
15.000	OB14	15 Summer	1	+0%	100/15 Summer	100/15 Summer			36.560	-0.115	0.000
14.001	S111	15 Summer	1	+0%	30/15 Summer				35.514	-0.111	0.000
16.000	OB15	15 Summer	1	+0%	100/30 Summer				37.570	-0.109	0.000
2.008	S112	15 Summer	1	+0%	30/15 Summer				34.696	-0.370	0.000

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

PN	US/MH Name	Flow / Cap.	Overflow (l/s)	Half Drain Pipe		Status	Level Exceeded
				Time (mins)	Flow (l/s)		
2.000	OB1	0.26			7.9	OK	
3.000	OB2	0.44			10.0	OK	2
2.001	S100	0.19			17.7	OK	2
4.000	OB3	0.32			17.6	OK	7
5.000	OB4	0.13			17.5	OK	
2.002	S101	0.36			51.4	OK	3
6.000	OB5	0.14			40.0	OK	3
2.003	S102	0.32			87.6	OK	
7.000	OB6	0.37			44.7	OK	7
8.000	OB7	0.23			44.4	OK	5
2.004	S103	0.75			166.9	OK	
2.005	S104	0.76			159.0	OK	
9.000	OB8	0.18			9.1	OK	
2.006	S105	0.62			162.4	OK	
10.000	OB9	0.73			14.5	OK	5
10.001	S106	0.25			14.2	OK	
11.000	OB10	0.11			15.7	OK	1
10.002	S107	0.56			28.4	OK	
12.000	OB11	0.08			15.7	OK	
10.003	S108	0.44			41.8	OK	
13.000	OB12	0.12			11.0	OK	
10.004	S109	0.33			51.2	OK	
2.007	S110	0.48			201.9	OK	
14.000	OB13	0.20			34.7	OK	4
15.000	OB14	0.12			4.6	OK	5
14.001	S111	0.50			39.0	OK	
16.000	OB15	0.17			10.2	OK	
2.008	S112	0.42			218.0	OK	

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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)
17.000	OB16	15 Summer	1	+0%					37.568	-0.111	0.000
2.009	S113	30 Summer	1	+0%	30/15 Summer				34.464	-0.362	0.000
18.000	OB17	15 Summer	1	+0%					37.566	-0.113	0.000
2.010	S114	30 Summer	1	+0%	30/15 Summer				34.341	-0.244	0.000
19.000	OB18	15 Summer	1	+0%	30/15 Summer	100/15 Summer			37.759	-0.086	0.000
19.001	S115	15 Summer	1	+0%	30/15 Summer				37.444	-0.056	0.000
20.000	OB19	15 Summer	1	+0%	100/15 Summer				37.740	-0.105	0.000
19.002	S116	15 Summer	1	+0%	30/15 Summer				36.467	-0.100	0.000
19.003	S117	15 Summer	1	+0%	30/15 Summer	100/15 Summer			35.992	-0.095	0.000
21.000	OB20	15 Summer	1	+0%	100/15 Summer				37.026	-0.108	0.000
22.000	OB21	15 Summer	1	+0%	100/15 Summer				37.172	-0.113	0.000
19.004	S118	15 Summer	1	+0%	30/15 Summer				35.714	-0.182	0.000
23.000	OB22	15 Summer	1	+0%	100/15 Summer	100/15 Summer			36.591	-0.159	0.000
24.000	OB23	15 Summer	1	+0%	100/15 Summer	100/15 Summer			37.220	-0.100	0.000
19.005	S119	15 Summer	1	+0%	30/15 Summer				35.681	-0.157	0.000
25.000	OB24	15 Summer	1	+0%	100/15 Summer				37.197	-0.163	0.000
19.006	S120	15 Summer	1	+0%	30/15 Summer				35.359	-0.219	0.000
26.000	OB25	15 Summer	1	+0%	100/15 Summer				37.203	-0.157	0.000
27.000	OB26	15 Summer	1	+0%	100/15 Summer	100/15 Summer			36.615	-0.135	0.000
19.007	S121	15 Summer	1	+0%	30/15 Summer				34.966	-0.308	0.000
19.008	S122	15 Summer	1	+0%	30/15 Summer				34.712	-0.368	0.000
19.009	S123	15 Summer	1	+0%	30/15 Summer				34.449	-0.359	0.000
28.000	OB27	15 Summer	1	+0%					37.660	-0.103	0.000
19.010	S124	30 Summer	1	+0%	30/15 Summer				34.364	-0.221	0.000
29.000	OB28	15 Summer	1	+0%	100/15 Summer				36.479	-0.107	0.000
2.011	S125	30 Summer	1	+0%	30/15 Summer				34.300	-0.178	0.000
30.000	OB29	15 Summer	1	+0%	100/15 Summer				36.574	-0.101	0.000
31.000	OB30	15 Summer	1	+0%	100/15 Summer				37.064	-0.151	0.000
30.001	S126	15 Summer	1	+0%	30/15 Summer				36.218	-0.117	0.000
2.012	S127	30 Summer	1	+0%	30/15 Summer				34.062	-0.400	0.000
2.013	INT01	30 Summer	1	+0%	30/15 Summer				33.887	-0.403	0.000
32.000	SDP01	15 Summer	1	+0%	1/15 Summer	100/15 Summer			37.943	0.068	0.000
33.000	RWP01	15 Summer	1	+0%	30/15 Summer				37.666	-0.134	0.000
33.001	S200	15 Summer	1	+0%	30/15 Summer				37.290	-0.133	0.000
34.000	RWP03	15 Summer	1	+0%	30/15 Summer				37.687	-0.113	0.000
34.001	S201	15 Summer	1	+0%	30/15 Summer	100/15 Summer			37.211	-0.097	0.000
35.000	RWP04	15 Summer	1	+0%	30/15 Summer				37.683	-0.117	0.000
34.002	BRANCH	15 Summer	1	+0%					37.037	-0.078	0.000
36.000	RWP05	15 Summer	1	+0%	30/15 Summer				37.682	-0.118	0.000
34.003	BRANCH	15 Summer	1	+0%					36.904	-0.018	0.000
37.000	RWP02	15 Summer	1	+0%	30/15 Summer				37.662	-0.138	0.000
32.001	S202 (V)	15 Summer	1	+0%	30/15 Summer				36.861	0.000	0.000
32.002	S203	15 Summer	1	+0%	30/15 Summer	100/15 Summer			36.688	-0.134	0.000
38.000	RWP06	15 Summer	1	+0%	30/15 Summer				37.671	-0.129	0.000
32.003	BRANCH	15 Summer	1	+0%					36.494	-0.183	0.000
39.000	SWP07	15 Summer	1	+0%	30/15 Summer				37.670	-0.130	0.000
32.004	BRANCH	15 Summer	1	+0%					36.448	-0.196	0.000
40.000	RWP08	15 Summer	1	+0%	30/15 Summer				37.671	-0.129	0.000
32.005	S204	15 Summer	1	+0%	30/15 Summer	100/15 Summer			36.302	-0.289	0.000
41.000	SDP02	15 Summer	1	+0%	1/15 Summer	100/15 Summer			37.947	0.072	0.000
42.000	RWP09	15 Summer	1	+0%	30/15 Summer				37.666	-0.134	0.000
42.001	S205	15 Summer	1	+0%	30/15 Summer	100/15 Summer			37.239	-0.133	0.000
43.000	RWP10	15 Summer	1	+0%	30/15 Summer				37.665	-0.135	0.000
44.000	RWP11	15 Summer	1	+0%	30/15 Summer				37.091	-0.120	0.000
45.000	RWP12	15 Summer	1	+0%	30/15 Summer				37.670	-0.130	0.000

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

PN	US/MH Name	Flow / Cap.	Half Drain Pipe		Status	Level Exceeded	
			Overflow (l/s)	Time (mins)			Flow (l/s)
17.000	OB16	0.15			10.4	OK	
2.009	S113	0.41			213.8	OK	
18.000	OB17	0.14			10.6	OK	
2.010	S114	0.46			210.3	OK	
19.000	OB18	0.38			13.9	OK	7
19.001	S115	0.67			13.2	OK	
20.000	OB19	0.20			13.9	OK	
19.002	S116	0.58			25.8	OK	
19.003	S117	0.64			25.6	OK	7
21.000	OB20	0.17			11.2	OK	
22.000	OB21	0.14			7.8	OK	
19.004	S118	0.42			41.9	OK	
23.000	OB22	0.19			19.1	OK	6
24.000	OB23	0.24			16.4	OK	5
19.005	S119	0.61			72.3	OK	
25.000	OB24	0.17			31.7	OK	
19.006	S120	0.50			95.0	OK	
26.000	OB25	0.20			40.5	OK	
27.000	OB26	0.34			44.7	OK	6
19.007	S121	0.46			163.2	OK	
19.008	S122	0.32			162.2	OK	
19.009	S123	0.34			160.2	OK	
28.000	OB27	0.22			13.7	OK	
19.010	S124	0.61			154.5	OK	
29.000	OB28	0.18			7.9	OK	
2.011	S125	1.14			341.3	OK	
30.000	OB29	0.23			4.5	OK	
31.000	OB30	0.24			31.2	OK	
30.001	S126	0.46			35.4	OK	
2.012	S127	0.59			349.1	OK	
2.013	INT01	0.46			347.8	OK	
32.000	SDP01	1.20			181.9	SURCHARGED	7
33.000	RWP01	0.03			1.0	OK	
33.001	S200	0.03			1.0	OK	
34.000	RWP03	0.13			4.8	OK	
34.001	S201	0.26			4.6	OK	7
35.000	RWP04	0.11			4.6	OK	
34.002	BRANCH	0.44			9.1	OK*	
36.000	RWP05	0.10			4.8	OK	
34.003	BRANCH	0.83			12.8	OK*	
37.000	RWP02	0.02			1.0	OK	
32.001	S202 (V)	1.11			188.8	OK	
32.002	S203	0.84			179.9	OK	7
38.000	RWP06	0.05			2.8	OK	
32.003	BRANCH	0.75			178.5	OK*	
39.000	SWP07	0.04			2.5	OK	
32.004	BRANCH	0.72			178.6	OK*	
40.000	RWP08	0.05			2.5	OK	
32.005	S204	0.47			160.2	OK	7
41.000	SDP02	1.21			183.0	SURCHARGED	6
42.000	RWP09	0.02			1.0	OK	
42.001	S205	0.03			1.0	OK	1
43.000	RWP10	0.02			1.0	OK	
44.000	RWP11	0.09			2.5	OK	

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

PN	US/MH Name	Flow / Overflow Cap. (l/s)	Half Drain Pipe		Status	Level Exceeded
			Time (mins)	Flow (l/s)		
45.000	RWP12	0.04		2.5	OK	

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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)
44.001	BRANCH	15	Summer	1	+0%				36.810	-0.107	0.000
41.001	S206(V)	15	Summer	1	+0%	30/15	Summer		36.497	-0.214	0.000
32.006	S207	15	Summer	1	+0%	30/15	Summer	100/15	36.053	-0.267	0.000
46.000	RWP13	15	Summer	1	+0%	30/15	Summer		37.522	-0.128	0.000
32.007	S208	15	Summer	1	+0%	30/15	Summer		36.016	-0.236	0.000
32.008	S209	15	Summer	1	+0%	30/15	Summer		35.985	-0.225	0.000
47.000	RWP14	15	Summer	1	+0%	100/15	Summer		37.866	-0.134	0.000
32.009	BRANCH	15	Summer	1	+0%				35.904	-0.298	0.000
48.000	RWP15	15	Summer	1	+0%	100/15	Summer		37.875	-0.125	0.000
48.001	S210	15	Summer	1	+0%	100/15	Summer		37.478	-0.122	0.000
49.000	RWP16	15	Summer	1	+0%	100/15	Summer		37.870	-0.130	0.000
48.002	BRANCH	15	Summer	1	+0%				37.305	-0.111	0.000
50.000	RWP17	15	Summer	1	+0%	100/15	Summer		37.830	-0.120	0.000
51.000	RWP18	15	Summer	1	+0%	100/15	Summer		37.827	-0.123	0.000
50.001	S211	15	Summer	1	+0%	100/15	Summer		37.398	-0.102	0.000
52.000	RWP19	15	Summer	1	+0%	100/15	Summer		37.456	-0.129	0.000
50.002	BRANCH	15	Summer	1	+0%				37.097	-0.097	0.000
53.000	RWP20	15	Summer	1	+0%	100/15	Summer		37.866	-0.134	0.000
50.003	BRANCH	15	Summer	1	+0%				36.709	-0.085	0.000
50.004	S212	15	Summer	1	+0%	30/15	Summer	100/30	36.570	-0.075	0.000
32.010	S213	15	Summer	1	+0%	30/15	Summer		35.866	-0.266	0.000
54.000	RWP21	15	Summer	1	+0%	100/15	Summer		37.868	-0.132	0.000
32.011	BRANCH	15	Summer	1	+0%				35.842	-0.271	0.000
55.000	RWP22	15	Summer	1	+0%	100/15	Summer		37.868	-0.132	0.000
32.012	BRANCH	15	Summer	1	+0%				35.815	-0.260	0.000
56.000	RWP23	15	Summer	1	+0%	100/15	Summer		37.868	-0.132	0.000
32.013	BRANCH	30	Summer	1	+0%				35.785	-0.253	0.000
57.000	RWP24	15	Summer	1	+0%	100/15	Summer		37.868	-0.132	0.000
32.014	BRANCH	30	Summer	1	+0%				35.762	-0.239	0.000
58.000	RWP25	15	Summer	1	+0%	100/30	Summer		37.868	-0.132	0.000
32.015	BRANCH	30	Summer	1	+0%				35.736	-0.225	0.000
59.000	SDP12	15	Summer	1	+0%	30/15	Summer	100/15	37.598	-0.127	0.000
60.000	SDP13	15	Summer	1	+0%	100/15	Summer		37.439	-0.211	0.000
61.000	SDP14	15	Summer	1	+0%	30/15	Summer	100/15	37.598	-0.127	0.000
62.000	RWP29	15	Summer	1	+0%	100/15	Summer		37.515	-0.135	0.000
62.001	S214	15	Summer	1	+0%	30/30	Summer		37.126	-0.124	0.000
63.000	RWP30	15	Summer	1	+0%	100/15	Summer		37.857	-0.143	0.000
61.001	S215(V)	15	Summer	1	+0%	1/15	Summer		36.041	0.021	0.000
64.000	RWP27	15	Summer	1	+0%	100/15	Summer		37.367	-0.133	0.000
64.001	S214a	15	Summer	1	+0%	100/15	Summer		37.124	-0.126	0.000
65.000	RWP28	15	Summer	1	+0%	100/15	Summer		37.858	-0.142	0.000
59.001	S216(V)	15	Summer	1	+0%	30/15	Summer		35.861	-0.129	0.000
66.000	RWP26	15	Summer	1	+0%	100/30	Summer		37.873	-0.127	0.000
32.016	S217	30	Summer	1	+0%	30/15	Summer		35.710	-0.214	0.000
67.000	RWP31	15	Summer	1	+0%				37.867	-0.133	0.000
32.017	BRANCH	30	Summer	1	+0%				35.605	-0.285	0.000
68.000	RWP32	15	Summer	1	+0%				38.018	-0.132	0.000
32.018	BRANCH	30	Summer	1	+0%				35.582	-0.275	0.000
69.000	RWP33	15	Summer	1	+0%				38.018	-0.132	0.000
32.019	BRANCH	30	Summer	1	+0%				35.559	-0.261	0.000
70.000	RWP34	15	Summer	1	+0%				38.017	-0.133	0.000
32.020	BRANCH	30	Summer	1	+0%				35.542	-0.249	0.000
71.000	RWP36	15	Summer	1	+0%				37.829	-0.121	0.000
72.000	RWP35	15	Summer	1	+0%				37.831	-0.119	0.000
71.001	S218	15	Summer	1	+0%	100/15	Summer		37.399	-0.101	0.000

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

PN	US/MH Name	Flow / Cap.	Half Drain Pipe		Status	Level Exceeded	
			Overflow (l/s)	Time (mins)			Flow (l/s)
44.001	BRANCH	0.17			4.9	OK*	
41.001	S206 (V)	0.54			189.8	OK	
32.006	S207	0.51			237.4	OK	2
46.000	RWP13	0.05			2.1	OK	
32.007	S208	0.60			227.8	OK	
32.008	S209	0.83			228.7	OK	
47.000	RWP14	0.02			2.1	OK	
32.009	BRANCH	0.37			227.3	OK*	
48.000	RWP15	0.06			2.1	OK	
48.001	S210	0.07			2.0	OK	
49.000	RWP16	0.04			2.1	OK	
48.002	BRANCH	0.14			4.0	OK*	
50.000	RWP17	0.08			2.7	OK	
51.000	RWP18	0.08			2.7	OK	
50.001	S211	0.21			5.3	OK	
52.000	RWP19	0.05			1.8	OK	
50.002	BRANCH	0.25			7.1	OK*	
53.000	RWP20	0.03			1.8	OK	
50.003	BRANCH	0.37			9.0	OK*	
50.004	S212	0.50			8.9	OK	3
32.010	S213	0.79			232.2	OK	
54.000	RWP21	0.03			3.0	OK	
32.011	BRANCH	0.44			234.0	OK*	
55.000	RWP22	0.04			3.1	OK	
32.012	BRANCH	0.45			237.9	OK*	
56.000	RWP23	0.03			2.9	OK	
32.013	BRANCH	0.46			245.0	OK*	
57.000	RWP24	0.03			3.1	OK	
32.014	BRANCH	0.46			251.2	OK*	
58.000	RWP25	0.03			2.9	OK	
32.015	BRANCH	0.48			258.4	OK*	
59.000	SDP12	0.73			204.6	OK	6
60.000	SDP13	0.19			33.9	OK	
61.000	SDP14	0.73			204.6	OK	6
62.000	RWP29	0.02			0.9	OK	
62.001	S214	0.07			0.8	OK	
63.000	RWP30	0.01			0.9	OK	
61.001	S215 (V)	1.39			204.5	SURCHARGED	
64.000	RWP27	0.03			0.9	OK	
64.001	S214a	0.06			0.8	OK	
65.000	RWP28	0.01			0.9	OK	
59.001	S216 (V)	0.97			449.9	OK	
66.000	RWP26	0.06			3.2	OK	
32.016	S217	0.94			441.0	OK	
67.000	RWP31	0.03			2.8	OK	
32.017	BRANCH	0.57			437.9	OK*	
68.000	RWP32	0.03			3.0	OK	
32.018	BRANCH	0.53			432.5	OK*	
69.000	RWP33	0.03			3.1	OK	
32.019	BRANCH	0.56			429.1	OK*	
70.000	RWP34	0.03			2.8	OK	
32.020	BRANCH	0.49			428.3	OK*	
71.000	RWP36	0.08			3.0	OK	
72.000	RWP35	0.09			3.0	OK	

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

PN	US/MH Name	Flow / Overflow Cap. (l/s)	Half Drain Pipe		Status	Level Exceeded
			Time (mins)	Flow (l/s)		
71.001	S218	0.22		5.7	OK	

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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
73.000	RWP37	15 Summer	1	+0%					37.868	-0.132
71.002	BRANCH	15 Summer	1	+0%					37.098	-0.096
74.000	RWP38	15 Summer	1	+0%					37.866	-0.134
71.003	S219	15 Summer	1	+0%	100/15 Summer				36.740	-0.087
75.000	RWP39	15 Summer	1	+0%					38.000	-0.150
32.021	S220	30 Summer	1	+0%	30/15 Summer				35.512	-0.236
76.000	RWP40	15 Summer	1	+0%					38.018	-0.132
32.022	BRANCH	30 Summer	1	+0%					35.473	-0.256
77.000	RWP41	15 Summer	1	+0%					38.018	-0.132
32.023	BRANCH	30 Summer	1	+0%					35.461	-0.246
78.000	RWP42	15 Summer	1	+0%					38.023	-0.127
32.024	S221 (SUDES)	30 Summer	1	+0%	30/15 Summer				35.443	-0.234
79.000	SDP03	15 Summer	1	+0%	1/15 Summer	100/15 Summer			37.947	0.072
80.000	RWP43	15 Summer	1	+0%	30/15 Summer				37.666	-0.134
80.001	S222	15 Summer	1	+0%	30/15 Summer				37.290	-0.133
81.000	RWP44	15 Summer	1	+0%	30/15 Summer				37.662	-0.138
82.000	RWP45	15 Summer	1	+0%	30/15 Summer				37.685	-0.115
82.001	S223	15 Summer	1	+0%	30/15 Summer	100/15 Summer			37.202	-0.098
83.000	RWP46	15 Summer	1	+0%	30/15 Summer				37.685	-0.115
82.002	BRANCH	15 Summer	1	+0%					37.045	-0.075
84.000	RWP47	15 Summer	1	+0%	30/15 Summer				37.681	-0.119
82.003	BRANCH	15 Summer	1	+0%					36.918	-0.022
79.001	S224 (V)	15 Summer	1	+0%	1/15 Summer				36.910	0.026
79.002	S225	15 Summer	1	+0%	30/15 Summer	100/30 Summer			36.792	0.000
85.000	RWP48	15 Summer	1	+0%	30/15 Summer	100/15 Summer			37.475	-0.125
79.003	BRANCH	15 Summer	1	+0%					36.563	-0.185
86.000	RWP49	15 Summer	1	+0%	30/15 Summer				37.281	-0.119
79.004	BRANCH	15 Summer	1	+0%					36.515	-0.188
87.000	RWP50	15 Summer	1	+0%	30/15 Summer				37.281	-0.119
79.005	BRANCH	15 Summer	1	+0%					36.479	-0.179
88.000	RWP51	15 Summer	1	+0%	100/15 Summer				37.275	-0.125
79.006	BRANCH	15 Summer	1	+0%					36.435	-0.178
89.000	RWP52	15 Summer	1	+0%					37.720	-0.130
79.007	BRANCH	15 Summer	1	+0%					36.410	-0.179
90.000	RWP53	15 Summer	1	+0%	100/30 Summer				37.575	-0.130
79.008	BRANCH	15 Summer	1	+0%					36.373	-0.181
91.000	RWP54	15 Summer	1	+0%	100/15 Summer				37.123	-0.127
79.009	S226	15 Summer	1	+0%	30/15 Summer				36.257	-0.210
92.000	SDP04	15 Summer	1	+0%	1/15 Summer	100/15 Summer			37.947	0.072
93.000	RWP55	15 Summer	1	+0%	100/15 Summer				37.666	-0.134
93.001	S227	15 Summer	1	+0%	100/15 Summer				37.288	-0.134
94.000	RWP56	15 Summer	1	+0%	100/15 Summer				37.665	-0.135
95.000	RWP57	15 Summer	1	+0%	100/15 Summer				37.670	-0.130
96.000	RWP58	15 Summer	1	+0%	30/15 Summer				37.091	-0.120
95.001	BRANCH	15 Summer	1	+0%					36.810	-0.107
92.001	S228 (V)	15 Summer	1	+0%	30/15 Summer				36.550	-0.161
79.010	S229	15 Summer	1	+0%	30/15 Summer				35.794	-0.293
79.011	S230 (SUDES)	15 Summer	1	+0%	30/15 Summer				35.580	-0.374
32.025	S231	30 Summer	1	+0%	30/15 Summer				35.423	-0.240
2.014	S232	30 Summer	1	+0%	30/15 Summer				33.851	-0.378
2.015	S233	30 Summer	1	+0%	30/15 Summer				33.770	-0.337
97.000	RWP59	15 Summer	1	+0%					37.470	-0.130
98.000	RWP60	15 Summer	1	+0%					37.479	-0.121
2.016	S234	30 Summer	1	+0%	30/15 Summer				33.677	-0.303
2.017	S235	30 Summer	1	+0%	30/15 Summer				33.581	-0.288

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

PN	US/MH Name	Flooded		Half Drain Pipe		Status	Level Exceeded
		Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)		
73.000	RWP37	0.000	0.03		1.8	OK	
71.002	BRANCH	0.000	0.27		7.5	OK*	
74.000	RWP38	0.000	0.03		1.8	OK	
71.003	S219	0.000	0.36		9.5	OK	
75.000	RWP39	0.000	0.00		0.0	OK	
32.021	S220	0.000	1.07		430.2	OK	
76.000	RWP40	0.000	0.03		3.2	OK	
32.022	BRANCH	0.000	0.57		432.2	OK*	
77.000	RWP41	0.000	0.03		3.2	OK	
32.023	BRANCH	0.000	0.57		433.7	OK*	
78.000	RWP42	0.000	0.06		3.2	OK	
32.024	S221 (SUDS)	0.000	0.89		437.0	OK	
79.000	SDP03	0.000	1.21		183.0	SURCHARGED	6
80.000	RWP43	0.000	0.03		1.0	OK	
80.001	S222	0.000	0.03		0.9	OK	
81.000	RWP44	0.000	0.02		1.0	OK	
82.000	RWP45	0.000	0.12		4.4	OK	
82.001	S223	0.000	0.25		4.2	OK	6
83.000	RWP46	0.000	0.12		5.2	OK	
82.002	BRANCH	0.000	0.47		9.3	OK*	
84.000	RWP47	0.000	0.10		4.5	OK	
82.003	BRANCH	0.000	0.91		13.5	OK*	
79.001	S224 (V)	0.000	0.76		188.0	SURCHARGED	
79.002	S225	0.000	1.05		181.4	OK	3
85.000	RWP48	0.000	0.06		2.7	OK	6
79.003	BRANCH	0.000	0.74		184.7	OK*	
86.000	RWP49	0.000	0.10		3.7	OK	
79.004	BRANCH	0.000	0.75		186.2	OK*	
87.000	RWP50	0.000	0.09		3.7	OK	
79.005	BRANCH	0.000	0.75		186.0	OK*	
88.000	RWP51	0.000	0.06		2.7	OK	
79.006	BRANCH	0.000	0.76		188.5	OK*	
89.000	RWP52	0.000	0.04		2.7	OK	
79.007	BRANCH	0.000	0.77		190.5	OK*	
90.000	RWP53	0.000	0.04		2.5	OK	
79.008	BRANCH	0.000	0.77		190.2	OK*	
91.000	RWP54	0.000	0.06		2.5	OK	
79.009	S226	0.000	0.61		175.9	OK	
92.000	SDP04	0.000	1.21		183.0	SURCHARGED	5
93.000	RWP55	0.000	0.03		1.0	OK	
93.001	S227	0.000	0.03		0.9	OK	
94.000	RWP56	0.000	0.02		1.0	OK	
95.000	RWP57	0.000	0.04		2.5	OK	
96.000	RWP58	0.000	0.09		2.5	OK	
95.001	BRANCH	0.000	0.17		4.9	OK*	
92.001	S228 (V)	0.000	0.61		189.7	OK	
79.010	S229	0.000	0.60		277.7	OK	
79.011	S230 (SUDS)	0.000	0.41		280.8	OK	
32.025	S231	0.000	1.04		670.7	OK	
2.014	S232	0.000	0.62		965.3	OK	
2.015	S233	0.000	0.67		916.4	OK	
97.000	RWP59	0.000	0.04		2.6	OK	
98.000	RWP60	0.000	0.08		5.0	OK	
2.016	S234	0.000	0.72		873.8	OK	

Noble House, Capital Drive
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1 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Flooded		Half Drain Pipe		Status	Level Exceeded
		Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)		
2.017	S235	0.000	0.78		849.6	OK	

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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
99.000	RWP61	15 Summer	1	+0%	100/15 Summer				37.783	-0.117
99.001	S236	15 Summer	1	+0%	100/15 Summer				37.635	-0.110
100.000	RWP62	15 Summer	1	+0%	100/15 Summer				37.784	-0.116
99.002	BRANCH	15 Summer	1	+0%					37.502	-0.086
99.003	S237	15 Summer	1	+0%	30/15 Summer				37.272	-0.081
101.000	RWP63	15 Summer	1	+0%					37.669	-0.131
99.004	BRANCH	15 Summer	1	+0%					37.144	-0.077
102.000	RWP64	15 Summer	1	+0%					37.817	-0.133
99.005	S238	15 Summer	1	+0%					35.492	-0.165
103.000	RWP65	15 Summer	1	+0%					37.081	-0.125
99.006	BRANCH	15 Summer	1	+0%					35.006	-0.151
104.000	RWP66	15 Summer	1	+0%					37.065	-0.131
99.007	BRANCH	15 Summer	1	+0%					34.754	-0.143
105.000	RWP67	15 Summer	1	+0%					36.822	-0.134
2.018	S239	30 Summer	1	+0%	30/15 Summer				33.495	-0.293
2.019	ATT INLET	01 30 Summer	1	+0%					33.127	-0.648
106.000	SDP05	15 Summer	1	+0%	1/15 Summer	100/15 Summer			37.926	0.051
106.001	S400 (V)	15 Summer	1	+0%	30/15 Summer	100/15 Summer			37.123	-0.227
107.000	RWP60	15 Summer	1	+0%	30/15 Summer				37.668	-0.132
106.002	S401	15 Summer	1	+0%	30/15 Summer	100/15 Summer			36.836	-0.173
108.000	RWP61	15 Summer	1	+0%	30/15 Summer				37.668	-0.132
106.003	BRANCH	15 Summer	1	+0%					36.752	-0.220
109.000	RWP62	15 Summer	1	+0%	30/15 Summer				37.662	-0.138
106.004	BRANCH	15 Summer	1	+0%					36.672	-0.208
110.000	RWP63	15 Summer	1	+0%	100/15 Summer				37.667	-0.133
106.005	S402	15 Summer	1	+0%	30/15 Summer	100/30 Summer			36.630	-0.191
111.000	RWP64	15 Summer	1	+0%	100/15 Summer				37.667	-0.133
106.006	BRANCH	15 Summer	1	+0%					36.607	-0.183
112.000	RWP65	15 Summer	1	+0%	100/15 Summer				37.650	-0.150
106.007	BRANCH	15 Summer	1	+0%					36.576	-0.174
113.000	SDP06	15 Summer	1	+0%	1/15 Summer	100/15 Summer			37.923	0.048
106.008	S403	15 Summer	1	+0%	30/15 Summer	100/30 Summer			36.540	-0.166
114.000	RWP66	15 Summer	1	+0%	100/15 Summer				37.666	-0.134
106.009	BRANCH	15 Summer	1	+0%					36.475	-0.205
115.000	RWP67	15 Summer	1	+0%	100/15 Summer				37.667	-0.133
106.010	BRANCH	15 Summer	1	+0%					36.453	-0.192
116.000	RWP68	15 Summer	1	+0%	100/15 Summer				37.666	-0.134
106.011	BRANCH	15 Summer	1	+0%					36.429	-0.178
117.000	RWP69	15 Summer	1	+0%	100/15 Summer				37.678	-0.122
106.012	S404	15 Summer	1	+0%	30/15 Summer				36.379	-0.160
118.000	RWP70	15 Summer	1	+0%	100/15 Summer				37.875	-0.125
106.013	BRANCH	30 Summer	1	+0%					36.213	-0.300
106.014	S405	30 Summer	1	+0%	30/15 Summer	100/15 Summer			36.178	-0.312
119.000	RWP71	15 Summer	1	+0%	100/15 Summer				37.987	-0.113
119.001	S406	15 Summer	1	+0%	30/15 Summer	100/15 Summer			37.526	-0.099
120.000	RWP72	15 Summer	1	+0%	100/15 Summer				37.986	-0.114
119.002	BRANCH	15 Summer	1	+0%					37.230	-0.075
121.000	RWP73	15 Summer	1	+0%	100/15 Summer				37.987	-0.113
119.003	S407	15 Summer	1	+0%	30/15 Summer	100/30 Summer			36.905	-0.040
106.015	S408	30 Summer	1	+0%	30/15 Summer	100/15 Winter			35.889	-0.409
122.000	RWP74	15 Summer	1	+0%	30/15 Summer	100/30 Summer			37.658	-0.092
122.001	S409	15 Summer	1	+0%	30/15 Summer	100/15 Summer			37.615	-0.091
123.000	RWP75	15 Summer	1	+0%	100/15 Summer	100/30 Summer			37.734	-0.116
122.002	BRANCH	15 Summer	1	+0%					37.557	-0.079
124.000	RWP76	15 Summer	1	+0%	100/15 Summer				37.730	-0.120

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

PN	US/MH Name	Flooded		Half Drain Pipe		Status	Level Exceeded
		Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)		
99.000	RWP61	0.000	0.11		2.6	OK	
99.001	S236	0.000	0.16		2.6	OK	
100.000	RWP62	0.000	0.12		4.1	OK	
99.002	BRANCH	0.000	0.37		6.6	OK*	
99.003	S237	0.000	0.44		6.7	OK	
101.000	RWP63	0.000	0.04		1.8	OK	
99.004	BRANCH	0.000	0.47		8.4	OK*	
102.000	RWP64	0.000	0.03		1.8	OK	
99.005	S238	0.000	0.16		10.1	OK	
103.000	RWP65	0.000	0.06		5.8	OK	
99.006	BRANCH	0.000	0.23		15.6	OK*	
104.000	RWP66	0.000	0.04		3.6	OK	
99.007	BRANCH	0.000	0.28		19.0	OK*	
105.000	RWP67	0.000	0.02		2.0	OK	
2.018	S239	0.000	0.93		852.7	OK	
2.019	ATT INLET 01	0.000	0.43		851.3	OK*	
106.000	SDP05	0.000	1.14		173.4	SURCHARGED	7
106.001	S400 (V)	0.000	0.57		156.8	OK	7
107.000	RWP60	0.000	0.03		1.8	OK	
106.002	S401	0.000	0.77		147.0	OK	7
108.000	RWP61	0.000	0.03		1.8	OK	
106.003	BRANCH	0.000	0.59		146.2	OK*	
109.000	RWP62	0.000	0.02		0.9	OK	
106.004	BRANCH	0.000	0.60		148.2	OK*	
110.000	RWP63	0.000	0.03		1.8	OK	
106.005	S402	0.000	0.71		154.6	OK	1
111.000	RWP64	0.000	0.03		1.8	OK	
106.006	BRANCH	0.000	0.46		158.8	OK*	
112.000	RWP65	0.000	0.00		0.0	OK	
106.007	BRANCH	0.000	0.47		162.5	OK*	
113.000	SDP06	0.000	1.14		173.0	SURCHARGED	6
106.008	S403	0.000	0.91		225.6	OK	
114.000	RWP66	0.000	0.03		1.8	OK	
106.009	BRANCH	0.000	0.55		223.2	OK*	
115.000	RWP67	0.000	0.03		1.9	OK	
106.010	BRANCH	0.000	0.54		217.5	OK*	
116.000	RWP68	0.000	0.03		1.8	OK	
106.011	BRANCH	0.000	0.45		212.0	OK*	
117.000	RWP69	0.000	0.08		4.3	OK	
106.012	S404	0.000	0.93		211.7	OK	
118.000	RWP70	0.000	0.07		4.3	OK	
106.013	BRANCH	0.000	0.59		211.5	OK*	
106.014	S405	0.000	0.54		204.7	OK	7
119.000	RWP71	0.000	0.13		5.5	OK	
119.001	S406	0.000	0.24		5.3	OK	5
120.000	RWP72	0.000	0.13		6.8	OK	
119.002	BRANCH	0.000	0.47		11.8	OK*	
121.000	RWP73	0.000	0.13		8.3	OK	
119.003	S407	0.000	0.87		20.4	OK	2
106.015	S408	0.000	0.40		205.2	OK	
122.000	RWP74	0.000	0.31		4.1	OK	1
122.001	S409	0.000	0.31		4.0	OK	5
123.000	RWP75	0.000	0.11		3.3	OK	3
122.002	BRANCH	0.000	0.44		7.2	OK*	

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

PN	US/MH Name	Flooded		Half Drain Pipe		Status	Level Exceeded
		Volume (m ³)	Flow / Overflow Cap. (1/s)	Time (mins)	Flow (1/s)		
124.000	RWP76	0.000	0.08		2.8	OK	

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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water	Surcharged
									Level (m)	Depth (m)
122.003	BRANCH	15 Summer	1	+0%					37.515	-0.051
125.000	SDP7	15 Summer	1	+0%	30/15 Summer	100/15 Summer			37.830	-0.120
126.000	SDP8	15 Summer	1	+0%	100/15 Summer				37.610	-0.340
122.004	S410 (V)	15 Summer	1	+0%	30/15 Summer	100/15 Summer			36.728	-0.342
127.000	SDP9	15 Summer	1	+0%	30/15 Summer	100/15 Summer			37.830	-0.120
122.005	S411 (V)	15 Summer	1	+0%	30/15 Summer	100/15 Summer			36.717	-0.304
128.000	RWP77	15 Summer	1	+0%	100/15 Summer				37.728	-0.122
122.006	BRANCH	15 Summer	1	+0%					36.519	-0.368
129.000	RWP78	15 Summer	1	+0%	100/15 Summer				37.726	-0.124
122.007	BRANCH	15 Summer	1	+0%					36.311	-0.339
130.000	RWP79	15 Summer	1	+0%	100/15 Summer				37.716	-0.134
130.001	S412	15 Summer	1	+0%	100/15 Summer				37.421	-0.129
131.000	RWP80	15 Summer	1	+0%	100/15 Summer	100/15 Summer			37.306	-0.094
130.002	S413	15 Summer	1	+0%	100/15 Summer				37.240	-0.091
132.000	RWP81	15 Summer	1	+0%	100/15 Summer				37.864	-0.136
130.003	BRANCH	15 Summer	1	+0%					37.100	-0.088
133.000	RWP82	15 Summer	1	+0%	100/15 Summer	100/15 Summer			37.239	-0.111
130.004	BRANCH	15 Summer	1	+0%					37.015	-0.068
134.000	RWP83	15 Summer	1	+0%	100/15 Summer				37.860	-0.140
130.005	BRANCH	15 Summer	1	+0%					36.831	-0.065
135.000	RWP84	15 Summer	1	+0%	100/15 Summer				37.859	-0.141
130.006	S414	15 Summer	1	+0%	30/15 Summer				36.594	-0.052
122.008	S415	15 Summer	1	+0%	30/15 Summer				36.067	-0.388
106.016	S416	15 Summer	1	+0%	30/15 Summer	100/15 Summer			35.747	-0.378
136.000	RWP85	15 Summer	1	+0%	100/15 Summer				36.874	-0.126
106.017	S417	30 Summer	1	+0%	30/15 Summer	100/15 Summer			35.666	-0.377
137.000	RWP86	15 Summer	1	+0%	100/15 Summer				36.874	-0.126
106.018	S418	30 Summer	1	+0%	30/15 Summer	100/15 Summer			35.608	-0.373
106.019	S419	30 Summer	1	+0%	30/15 Summer				35.530	-0.339
138.000	RWP87	15 Summer	1	+0%					37.875	-0.125
106.020	BRANCH	30 Summer	1	+0%					35.483	-0.346
139.000	RWP88	15 Summer	1	+0%					37.879	-0.121
106.021	BRANCH	30 Summer	1	+0%					35.467	-0.335
140.000	RWP89	15 Summer	1	+0%					37.875	-0.125
106.022	S420	30 Summer	1	+0%	30/15 Summer				35.444	-0.316
141.000	RWP90	15 Summer	1	+0%					37.872	-0.128
106.023	BRANCH	30 Summer	1	+0%					35.343	-0.385
142.000	RWP91	15 Summer	1	+0%					37.871	-0.129
106.024	BRANCH	30 Summer	1	+0%					35.325	-0.378
143.000	RWP92	15 Summer	1	+0%					37.871	-0.129
106.025	BRANCH	30 Summer	1	+0%					35.305	-0.370
144.000	GULLEY	15 Summer	1	+0%	30/15 Summer	100/15 Summer			37.866	-0.084
144.001	S421	15 Summer	1	+0%	30/15 Summer				37.667	-0.075
106.026	S422	30 Summer	1	+0%	30/15 Summer				35.292	-0.361
145.000	RWP93	15 Summer	1	+0%					37.850	-0.150
106.027	BRANCH	30 Summer	1	+0%					35.272	-0.371
146.000	RWP94	15 Summer	1	+0%					37.850	-0.150
106.028	BRANCH	30 Summer	1	+0%					35.253	-0.363
147.000	RWP95	15 Summer	1	+0%					37.850	-0.150
106.029	BRANCH	30 Summer	1	+0%					35.231	-0.347
148.000	RWP96	15 Summer	1	+0%					37.850	-0.150
106.030	S423	30 Summer	1	+0%	30/30 Summer				35.215	-0.336
149.000	RWP96	15 Summer	1	+0%					37.874	-0.126
106.031	BRANCH	30 Summer	1	+0%					35.032	-0.485
150.000	RWP97	15 Summer	1	+0%					37.874	-0.126

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

PN	US/MH Name	Flooded		Half Drain Pipe		Level Exceeded	
		Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)		Status
122.003	BRANCH	0.000	0.75		10.0	OK*	
125.000	SDP7	0.000	0.84		174.9	OK	5
126.000	SDP8	0.000	0.13		26.9	OK	
122.004	S410 (V)	0.000	0.39		215.4	OK	5
127.000	SDP9	0.000	0.84		174.9	OK	5
122.005	S411 (V)	0.000	0.65		394.6	OK	4
128.000	RWP77	0.000	0.08		3.7	OK	
122.006	BRANCH	0.000	0.52		396.7	OK*	
129.000	RWP78	0.000	0.07		3.7	OK	
122.007	BRANCH	0.000	0.57		390.9	OK*	
130.000	RWP79	0.000	0.03		0.8	OK	
130.001	S412	0.000	0.05		0.8	OK	
131.000	RWP80	0.000	0.30		4.3	OK	7
130.002	S413	0.000	0.31		5.1	OK	
132.000	RWP81	0.000	0.02		1.1	OK	
130.003	BRANCH	0.000	0.35		6.2	OK*	
133.000	RWP82	0.000	0.15		4.3	OK	6
130.004	BRANCH	0.000	0.57		10.2	OK*	
134.000	RWP83	0.000	0.01		0.9	OK	
130.005	BRANCH	0.000	0.59		10.4	OK*	
135.000	RWP84	0.000	0.01		0.9	OK	
130.006	S414	0.000	0.74		11.5	OK	
122.008	S415	0.000	0.45		403.4	OK	
106.016	S416	0.000	0.59		422.7	OK	5
136.000	RWP85	0.000	0.06		3.8	OK	
106.017	S417	0.000	0.57		384.0	OK	6
137.000	RWP86	0.000	0.06		3.9	OK	
106.018	S418	0.000	0.48		369.3	OK	2
106.019	S419	0.000	0.64		350.5	OK	
138.000	RWP87	0.000	0.06		5.4	OK	
106.020	BRANCH	0.000	0.45		345.3	OK*	
139.000	RWP88	0.000	0.08		6.9	OK	
106.021	BRANCH	0.000	0.40		344.3	OK*	
140.000	RWP89	0.000	0.06		5.5	OK	
106.022	S420	0.000	0.75		344.6	OK	
141.000	RWP90	0.000	0.05		4.3	OK	
106.023	BRANCH	0.000	0.45		342.4	OK*	
142.000	RWP91	0.000	0.05		4.1	OK	
106.024	BRANCH	0.000	0.45		342.5	OK*	
143.000	RWP92	0.000	0.05		4.2	OK	
106.025	BRANCH	0.000	0.45		342.4	OK*	
144.000	GULLEY	0.000	0.39		11.2	OK	1
144.001	S421	0.000	0.47		10.8	OK	
106.026	S422	0.000	0.67		343.2	OK	
145.000	RWP93	0.000	0.00		0.0	OK	
106.027	BRANCH	0.000	0.44		343.0	OK*	
146.000	RWP94	0.000	0.00		0.0	OK	
106.028	BRANCH	0.000	0.42		341.2	OK*	
147.000	RWP95	0.000	0.00		0.0	OK	
106.029	BRANCH	0.000	0.44		339.5	OK*	
148.000	RWP96	0.000	0.00		0.0	OK	
106.030	S423	0.000	0.71		338.9	OK	
149.000	RWP96	0.000	0.06		5.6	OK	
106.031	BRANCH	0.000	0.44		339.1	OK*	

Noble House, Capital Drive
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AESC Giga Factories
 Plot 2



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

PN	US/MH Name	Flooded		Half Drain Pipe		Level Exceeded	Status
		Volume (m ³)	Flow / Overflow Cap. (1/s)	Time (mins)	Flow (1/s)		
150.000	RWP97	0.000	0.06		5.6		OK

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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water	Surcharged
									Level (m)	Depth (m)
106.032	BRANCH	30 Summer	1	+0%					34.972	-0.525
151.000	SDP10	15 Summer	1	+0%	1/15 Summer	100/15 Summer			37.921	0.046
151.001	S424(V)	15 Summer	1	+0%	30/15 Summer				37.350	0.000
152.000	RWP98	15 Summer	1	+0%	100/15 Summer				37.873	-0.127
151.002	S425	15 Summer	1	+0%	30/15 Summer				37.165	-0.147
153.000	RWP99	15 Summer	1	+0%	100/15 Summer				37.625	-0.125
151.003	BRANCH	15 Summer	1	+0%					37.038	-0.205
154.000	RWP100	15 Summer	1	+0%					37.615	-0.135
151.004	BRANCH	15 Summer	1	+0%					37.030	-0.207
106.033	S426	30 Summer	1	+0%	100/15 Summer				34.835	-0.605
155.000	RWP101	15 Summer	1	+0%					37.876	-0.124
155.001	S427	15 Summer	1	+0%					37.419	-0.113
156.000	RWP102	15 Summer	1	+0%					37.625	-0.125
155.002	BRANCH	15 Summer	1	+0%					37.114	-0.071
157.000	RWP103	15 Summer	1	+0%					37.615	-0.135
155.003	BRANCH	15 Summer	1	+0%					37.064	-0.090
106.034	S428	30 Summer	1	+0%	100/15 Summer				34.693	-0.558
158.000	RWP106	15 Summer	1	+0%					37.819	-0.131
158.001	S429	15 Summer	1	+0%	30/15 Summer				37.676	-0.133
159.000	RWP107	15 Summer	1	+0%					37.862	-0.138
160.000	SDP11	15 Summer	1	+0%	1/15 Summer	100/15 Summer			37.923	0.048
158.002	S430(V)	15 Summer	1	+0%	30/15 Summer				37.226	-0.124
106.035	S431	30 Summer	1	+0%	30/30 Summer				34.600	-0.450
106.036	S432(SUDS)	30 Summer	1	+0%	100/15 Summer				34.547	-0.445
106.037	ATT INLET	03 30 Summer	1	+0%					34.371	-0.597
161.000	OB31	15 Summer	1	+0%	30/15 Summer	100/15 Summer			37.620	-0.035
161.001	S300	15 Summer	1	+0%	100/15 Summer				37.443	-0.144
162.000	OB32	15 Summer	1	+0%	100/15 Summer	100/15 Summer			37.544	-0.111
161.002	S301	15 Summer	1	+0%	30/15 Summer				36.597	-0.115
163.000	OB33	15 Summer	1	+0%	100/15 Summer				37.256	-0.125
161.003	BRANCH	15 Summer	1	+0%					36.198	-0.108
161.004	S302	15 Summer	1	+0%	100/15 Summer				35.958	-0.195
164.000	OB34	15 Summer	1	+0%	100/15 Summer	100/15 Summer			36.702	-0.163
161.005	BRANCH	15 Summer	1	+0%					35.694	-0.170
165.000	OB37	15 Summer	1	+0%	100/15 Summer	100/15 Summer			36.614	-0.101
166.000	OB35	15 Summer	1	+0%	100/15 Summer	100/15 Summer			36.605	-0.105
166.001	S303	15 Summer	1	+0%	30/15 Summer				35.633	-0.077
167.000	OB36	15 Summer	1	+0%	100/15 Summer	100/15 Summer			37.014	-0.161
161.006	S304	15 Summer	1	+0%	30/15 Summer				35.106	-0.195
168.000	OB38	15 Summer	1	+0%	100/15 Summer	100/15 Summer			36.631	-0.159
161.007	S305	15 Summer	1	+0%	30/15 Summer				34.856	-0.245
169.000	OB39	15 Summer	1	+0%	100/15 Summer				36.622	-0.168
161.008	BRANCH	15 Summer	1	+0%					34.719	-0.211
170.000	OB40	15 Summer	1	+0%	100/30 Summer				36.919	-0.114
161.009	S306	15 Summer	1	+0%	30/15 Summer				34.680	-0.203
171.000	OB40a	15 Summer	1	+0%					36.923	-0.110
172.000	OB41	15 Summer	1	+0%	100/15 Summer				36.640	-0.150
161.010	S307	15 Summer	1	+0%	30/15 Summer				34.506	-0.290
173.000	OB42	15 Summer	1	+0%					36.700	-0.150
161.011	BRANCH	15 Summer	1	+0%					34.422	-0.299
174.000	OB43	15 Summer	1	+0%	100/15 Summer				37.319	-0.096
161.012	S308	15 Summer	1	+0%	30/15 Winter				34.367	-0.292
175.000	OB44	15 Summer	1	+0%					37.456	-0.109
161.013	BRANCH	30 Summer	1	+0%					34.252	-0.322
176.000	OB45	15 Summer	1	+0%	100/15 Summer				37.488	-0.152

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

PN	US/MH Name	Flooded		Half Drain Pipe		Status	Level Exceeded
		Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)		
106.032	BRANCH	0.000	0.36		340.1	OK*	
151.000	SDP10	0.000	1.14		172.8	SURCHARGED	5
151.001	S424 (V)	0.000	1.04		165.9	OK	
152.000	RWP98	0.000	0.06		2.9	OK	
151.002	S425	0.000	0.84		168.3	OK	
153.000	RWP99	0.000	0.07		3.0	OK	
151.003	BRANCH	0.000	0.69		170.5	OK*	
154.000	RWP100	0.000	0.02		0.9	OK	
151.004	BRANCH	0.000	0.68		170.2	OK*	
106.033	S426	0.000	0.31		360.9	OK	
155.000	RWP101	0.000	0.07		2.9	OK	
155.001	S427	0.000	0.13		2.8	OK	
156.000	RWP102	0.000	0.06		2.9	OK	
155.002	BRANCH	0.000	0.53		5.8	OK*	
157.000	RWP103	0.000	0.02		0.9	OK	
155.003	BRANCH	0.000	0.33		6.8	OK*	
106.034	S428	0.000	0.30		357.4	OK	
158.000	RWP106	0.000	0.04		0.9	OK	
158.001	S429	0.000	0.03		0.8	OK	
159.000	RWP107	0.000	0.02		0.9	OK	
160.000	SDP11	0.000	1.14		173.1	SURCHARGED	5
158.002	S430 (V)	0.000	0.88		172.9	OK	
106.035	S431	0.000	0.56		374.2	OK	
106.036	S432 (SUDES)	0.000	0.57		373.4	OK	
106.037	ATT INLET 03	0.000	0.32		374.0	OK*	
161.000	OB31	0.000	0.93		15.2	OK	5
161.001	S300	0.000	0.27		14.8	OK	
162.000	OB32	0.000	0.15		9.4	OK	3
161.002	S301	0.000	0.47		23.3	OK	
163.000	OB33	0.000	0.07		4.3	OK	
161.003	BRANCH	0.000	0.53		27.3	OK*	
161.004	S302	0.000	0.27		27.5	OK	
164.000	OB34	0.000	0.17		23.5	OK	5
161.005	BRANCH	0.000	0.38		48.4	OK*	
165.000	OB37	0.000	0.24		17.6	OK	5
166.000	OB35	0.000	0.19		8.2	OK	5
166.001	S303	0.000	0.48		8.3	OK	
167.000	OB36	0.000	0.18		31.8	OK	2
161.006	S304	0.000	0.59		100.5	OK	
168.000	OB38	0.000	0.19		34.0	OK	2
161.007	S305	0.000	0.53		124.7	OK	
169.000	OB39	0.000	0.15		27.9	OK	
161.008	BRANCH	0.000	0.57		141.1	OK*	
170.000	OB40	0.000	0.13		4.8	OK	
161.009	S306	0.000	0.68		141.1	OK	
171.000	OB40a	0.000	0.16		6.0	OK	
172.000	OB41	0.000	0.24		19.8	OK	
161.010	S307	0.000	0.52		152.0	OK	
173.000	OB42	0.000	0.00		0.0	OK	
161.011	BRANCH	0.000	0.43		149.9	OK*	
174.000	OB43	0.000	0.28		17.9	OK	
161.012	S308	0.000	0.52		155.3	OK	
175.000	OB44	0.000	0.16		17.8	OK	
161.013	BRANCH	0.000	0.43		159.1	OK*	

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

PN	US/MH Name	Flooded		Half Drain Pipe		Status	Level Exceeded
		Volume (m ³)	Flow / Overflow Cap. (1/s)	Time (mins)	Flow (1/s)		
176.000	OB45	0.000	0.23		39.6	OK	



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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
161.014	S309	30	Summer	1	+0%	100/15	Summer		34.032	-0.371
177.000	OB46	15	Summer	1	+0%				37.439	-0.126
161.015	S310	30	Summer	1	+0%	100/15	Summer		33.906	-0.345
178.000	OB47	15	Summer	1	+0%				37.394	-0.121
161.016	BRANCH	30	Summer	1	+0%				33.821	-0.380
179.000	OB48	15	Summer	1	+0%				37.425	-0.125
180.000	OB49	15	Summer	1	+0%	100/15	Summer		37.571	-0.097
161.017	S311	30	Summer	1	+0%	100/15	Summer		33.701	-0.374
181.000	OB50	15	Summer	1	+0%	100/15	Summer		37.527	-0.090
181.001	S312	15	Summer	1	+0%	100/15	Summer		37.359	-0.084
182.000	OB51	15	Summer	1	+0%				37.553	-0.114
181.002	S313	15	Summer	1	+0%	100/15	Summer		36.874	-0.151
183.000	OB52	15	Summer	1	+0%				37.468	-0.112
181.003	BRANCH	15	Summer	1	+0%				36.236	-0.130
181.004	S314	15	Summer	1	+0%	30/15	Summer		35.965	-0.115
184.000	OB53	15	Summer	1	+0%				37.407	-0.123
161.018	S315	30	Summer	1	+0%	100/15	Summer		33.559	-0.376
161.019	INT02 (SUDS)	30	Summer	1	+0%	30/15	Summer		33.505	-0.299
161.020	S316	30	Summer	1	+0%	100/15	Summer		33.485	-0.288
161.021	ATT INLET	02	30	Summer	1	+0%			33.277	-0.473
2.020	ATT TANK	01	240	Summer	1	+0%	30/60	Summer	33.035	-0.565
2.021	CONNECTION	240	Summer	1	+0%	100/30	Summer		32.844	-0.706
185.000	OB60	15	Summer	1	+0%	100/15	Summer	100/15 Summer	37.388	-0.211
186.000	OB61	15	Summer	1	+0%	30/15	Summer	100/15 Summer	37.228	-0.209
185.001	S500	15	Summer	1	+0%	30/15	Summer		36.985	-0.210
185.002	S501	15	Summer	1	+0%	30/15	Summer		36.827	-0.213
187.000	OB62	15	Summer	1	+0%	100/15	Summer	100/15 Summer	37.051	-0.227
185.003	BRANCH	15	Summer	1	+0%				36.664	-0.207
188.000	OB63	15	Summer	1	+0%	100/15	Summer		36.923	-0.118
189.000	OB64	15	Summer	1	+0%	30/15	Summer	100/15 Summer	36.832	-0.087
185.004	S502	15	Summer	1	+0%	30/15	Summer		36.480	-0.156
190.000	OB65	15	Summer	1	+0%	30/15	Summer	100/15 Summer	36.618	-0.101
185.005	BRANCH	15	Summer	1	+0%				36.408	-0.100
191.000	OB66	15	Summer	1	+0%	100/15	Summer		36.642	-0.127
185.006	S503	15	Summer	1	+0%	30/15	Summer		36.227	-0.232
192.000	OB67	15	Summer	1	+0%	30/15	Summer		36.247	-0.092
185.007	BRANCH	15	Summer	1	+0%				36.078	-0.217
193.000	OB68	15	Summer	1	+0%				36.600	-0.116
185.008	BRANCH	15	Summer	1	+0%				35.977	-0.174
194.000	OB69	15	Summer	1	+0%	30/15	Summer	100/15 Summer	36.390	-0.088
195.000	OB70	15	Summer	1	+0%	30/15	Summer	100/15 Summer	36.160	-0.190
194.001	S504	15	Summer	1	+0%	30/15	Summer		36.028	-0.152
196.000	OB71	15	Summer	1	+0%	30/15	Summer	100/15 Summer	36.235	-0.093
194.002	S505	15	Summer	1	+0%	30/15	Summer		35.918	-0.127
197.000	OB72	15	Summer	1	+0%	100/15	Summer		36.338	-0.127
198.000	OB73	15	Summer	1	+0%	30/15	Summer	100/15 Summer	36.200	-0.195
194.003	S506	15	Summer	1	+0%	30/15	Summer		35.694	-0.243
199.000	OB75	15	Summer	1	+0%	30/15	Summer	100/15 Summer	36.398	-0.099
200.000	OB74	15	Summer	1	+0%	30/15	Summer		36.548	-0.113
200.001	S507	15	Summer	1	+0%	30/15	Summer		36.305	-0.102
199.001	S508	15	Summer	1	+0%	30/15	Summer		35.989	-0.049
201.000	OB76	15	Summer	1	+0%	100/15	Summer		36.455	-0.113
194.004	S509	15	Summer	1	+0%	30/15	Summer		35.625	-0.153
194.005	S510	15	Summer	1	+0%	30/15	Summer		35.549	-0.148
202.000	OB77	15	Summer	1	+0%	100/15	Summer		36.637	-0.112

Noble House, Capital Drive
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AESC Giga Factories
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1 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Flooded		Half Drain Pipe		Level Exceeded	Status
		Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)		
161.014	S309	0.000	0.39		168.5		OK
177.000	OB46	0.000	0.06		4.9		OK
161.015	S310	0.000	0.48		168.5		OK
178.000	OB47	0.000	0.08		9.3		OK
161.016	BRANCH	0.000	0.36		169.9		OK*
179.000	OB48	0.000	0.06		4.8		OK
180.000	OB49	0.000	0.27		21.0		OK
161.017	S311	0.000	0.41		173.5		OK
181.000	OB50	0.000	0.33		8.7		OK
181.001	S312	0.000	0.40		8.7		OK
182.000	OB51	0.000	0.13		6.4		OK
181.002	S313	0.000	0.24		15.1		OK
183.000	OB52	0.000	0.15		10.2		OK
181.003	BRANCH	0.000	0.37		25.0		OK*
181.004	S314	0.000	0.48		25.1		OK
184.000	OB53	0.000	0.08		6.4		OK
161.018	S315	0.000	0.50		178.8		OK
161.019	INT02 (SUDS)	0.000	0.50		178.9		OK
161.020	S316	0.000	0.70		178.9		OK
161.021	ATT INLET 02	0.000	0.29		178.7		OK*
2.020	ATT TANK 01	0.000	0.55		452.7		OK
2.021	CONNECTION	0.000	0.36		452.6		OK
185.000	OB60	0.000	0.19		27.6		OK 4
186.000	OB61	0.000	0.20		24.7		OK 5
185.001	S500	0.000	0.39		51.8		OK
185.002	S501	0.000	0.39		52.4		OK
187.000	OB62	0.000	0.13		21.4		OK 5
185.003	BRANCH	0.000	0.42		72.8		OK*
188.000	OB63	0.000	0.10		4.0		OK
189.000	OB64	0.000	0.37		12.2		OK 5
185.004	S502	0.000	0.63		87.3		OK
190.000	OB65	0.000	0.24		6.8		OK 3
185.005	BRANCH	0.000	0.88		94.5		OK*
191.000	OB66	0.000	0.06		1.3		OK
185.006	S503	0.000	0.47		95.8		OK
192.000	OB67	0.000	0.64		19.2		OK
185.007	BRANCH	0.000	0.53		112.8		OK*
193.000	OB68	0.000	0.12		5.6		OK
185.008	BRANCH	0.000	0.69		116.8		OK*
194.000	OB69	0.000	0.36		9.2		OK 5
195.000	OB70	0.000	0.29		29.7		OK 5
194.001	S504	0.000	0.48		38.6		OK
196.000	OB71	0.000	0.31		9.4		OK 5
194.002	S505	0.000	0.63		48.4		OK
197.000	OB72	0.000	0.06		2.5		OK
198.000	OB73	0.000	0.26		44.8		OK 5
194.003	S506	0.000	0.43		95.3		OK
199.000	OB75	0.000	0.25		10.6		OK 5
200.000	OB74	0.000	0.14		4.2		OK
200.001	S507	0.000	0.22		4.1		OK
199.001	S508	0.000	0.78		14.6		OK
201.000	OB76	0.000	0.14		7.7		OK
194.004	S509	0.000	0.74		115.6		OK
194.005	S510	0.000	0.76		111.1		OK

Noble House, Capital Drive
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AESC Giga Factories
 Plot 2



Date 06/02/2024

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Network 2020.1.3

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

PN	US/MH Name	Flooded		Half Drain Pipe		Level Status Exceeded
		Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)	
202.000	OB77	0.000	0.14		9.7	OK

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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
194.006	S511	15 Summer	1	+0%	30/15 Summer				35.380	-0.175
203.000	OB78	15 Summer	1	+0%					36.633	-0.116
194.007	S512	15 Summer	1	+0%	30/15 Summer				35.101	-0.247
185.009	S513	15 Summer	1	+0%	30/15 Summer				35.004	-0.210
204.000	OB79	15 Summer	1	+0%	30/15 Summer	100/15 Summer			37.128	-0.190
204.001	S514	15 Summer	1	+0%	30/15 Summer				36.857	-0.143
205.000	OB80	15 Summer	1	+0%	30/15 Summer	100/15 Summer			36.823	-0.096
204.002	BRANCH	15 Summer	1	+0%					36.796	-0.073
185.010	S515	15 Summer	1	+0%	30/15 Summer				34.979	-0.183
206.000	OB83	15 Summer	1	+0%	30/15 Summer	100/15 Summer			36.921	-0.079
207.000	OB84	15 Summer	1	+0%	100/15 Summer				37.012	-0.098
208.000	OB81	15 Summer	1	+0%	30/15 Summer	100/15 Summer			37.227	-0.070
209.000	OB82	15 Summer	1	+0%	100/15 Summer				37.161	-0.101
208.001	S516	15 Summer	1	+0%	30/15 Summer				36.899	-0.111
210.000	GULLY	15 Summer	1	+0%	100/15 Summer				37.335	-0.150
208.002	BRANCH	15 Summer	1	+0%					36.715	-0.121
206.001	S517	15 Summer	1	+0%	30/15 Summer				36.601	-0.123
211.000	OB90A	15 Summer	1	+0%	100/15 Summer				36.814	-0.136
212.000	OB90	15 Summer	1	+0%	100/15 Summer				36.814	-0.136
213.000	OB85	15 Summer	1	+0%	100/15 Summer				36.834	-0.104
214.000	OB86	15 Summer	1	+0%	30/15 Summer	100/15 Summer			36.591	-0.087
213.001	S518	15 Summer	1	+0%	30/15 Summer				36.295	-0.110
215.000	OB87	15 Summer	1	+0%	100/15 Summer	100/15 Summer			36.760	-0.110
213.002	BRANCH	15 Summer	1	+0%					36.166	-0.094
216.000	OB88	15 Summer	1	+0%	100/15 Summer				36.891	-0.106
217.000	OB89	15 Summer	1	+0%	100/15 Summer				36.919	-0.117
213.003	S519	15 Summer	1	+0%	30/15 Summer				35.952	-0.140
206.002	S520	15 Summer	1	+0%	100/15 Summer				35.807	-0.215
218.000	OB92	15 Summer	1	+0%					36.898	-0.125
219.000	OB91	15 Summer	1	+0%	100/15 Summer				36.394	-0.114
220.000	OB93	15 Summer	1	+0%	100/15 Summer				36.229	-0.161
206.003	S521	15 Summer	1	+0%	100/15 Summer				35.394	-0.279
221.000	OB94	15 Summer	1	+0%	100/15 Summer				36.296	-0.157
206.004	BRANCH	15 Summer	1	+0%					35.074	-0.190
222.000	OB95	15 Summer	1	+0%					36.622	-0.128
185.011	S522	15 Summer	1	+0%	30/15 Summer				34.957	-0.158
185.012	INT03 (SUDS)	15 Summer	1	+0%	30/15 Summer				34.540	-0.229
185.013	S523	15 Summer	1	+0%	30/15 Summer				34.511	-0.231
185.014	ATT INLET 04	15 Summer	1	+0%					34.035	-0.689
2.022	ATT TANK 02	360 Winter	1	+0%	30/60 Summer				32.808	-0.017
2.023	S524	360 Summer	1	+0%	1/360 Summer				32.788	0.000
2.024	S524 (SUDS)	360 Winter	1	+0%	1/240 Winter				32.754	0.034
2.025	SWPS01	360 Winter	1	+0%	1/120 Summer				32.746	0.261
2.026	458	360 Winter	1	+0%					36.075	-0.225

PN	US/MH Name	Flooded		Half Drain		Pipe	Status	Level Exceeded
		Volume (m³)	Flow / Cap. (l/s)	Time (mins)	Flow (l/s)			
194.006	S511	0.000	0.66			112.6	OK	
203.000	OB78	0.000	0.12			8.8	OK	
194.007	S512	0.000	0.50			115.2	OK	
185.009	S513	0.000	0.46			220.4	OK	
204.000	OB79	0.000	0.29			39.2	OK	3

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

PN	US/MH Name	Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Volume (m ³)	Flow / Overflow Cap. (l/s)				
204.001	S514	0.000	0.53		39.0	OK	
205.000	OB80	0.000	0.61		19.4	OK	1
204.002	BRANCH	0.000	0.93		58.3	OK*	
185.010	S515	0.000	0.45		257.2	OK	
206.000	OB83	0.000	0.44		8.8	OK	3
207.000	OB84	0.000	0.26		9.7	OK	
208.000	OB81	0.000	0.55		11.7	OK	3
209.000	OB82	0.000	0.23		7.0	OK	
208.001	S516	0.000	0.50		18.6	OK	
210.000	GULLY	0.000	0.00		0.0	OK	
208.002	BRANCH	0.000	0.44		18.7	OK*	
206.001	S517	0.000	0.65		36.8	OK	
211.000	OB90A	0.000	0.02		1.2	OK	
212.000	OB90	0.000	0.02		1.2	OK	
213.000	OB85	0.000	0.20		8.5	OK	
214.000	OB86	0.000	0.36		8.2	OK	4
213.001	S518	0.000	0.51		16.5	OK	
215.000	OB87	0.000	0.16		7.2	OK	
213.002	BRANCH	0.000	0.63		23.0	OK*	
216.000	OB88	0.000	0.19		6.8	OK	
217.000	OB89	0.000	0.11		6.7	OK	
213.003	S519	0.000	0.54		35.2	OK	
206.002	S520	0.000	0.38		74.3	OK	
218.000	OB92	0.000	0.06		2.9	OK	
219.000	OB91	0.000	0.13		7.5	OK	
220.000	OB93	0.000	0.18		21.4	OK	
206.003	S521	0.000	0.30		103.6	OK	
221.000	OB94	0.000	0.20		29.6	OK	
206.004	BRANCH	0.000	0.62		131.2	OK*	
222.000	OB95	0.000	0.05		4.3	OK	
185.011	S522	0.000	1.00		350.6	OK	
185.012	INT03 (SUDS)	0.000	0.92		350.6	OK	
185.013	S523	0.000	0.95		350.2	OK	
185.014	ATT INLET 04	0.000	0.13		349.6	OK*	
2.022	ATT TANK 02	0.000	0.99		117.8	OK	
2.023	S524	0.000	0.53		105.5	SURCHARGED	
2.024	S524 (SUDS)	0.000	0.77		89.7	SURCHARGED	
2.025	SWPS01	0.000	2.06		68.2	SURCHARGED	
2.026	458	0.000	0.50		68.2	OK	



30 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 Offline Controls 0 Number of Time/Area Diagrams 0
 Number of Online Controls 1 Number of Storage Structures 2 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 18.300 Cv (Summer) 1.000
 Region England and Wales Ratio R 0.350 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status OFF
 DVD Status ON
 Inertia Status ON

Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 240, 360
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 45

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)
2.000	OB1	15 Summer	30	+0%	100/15 Summer				37.752	-0.063	0.000
3.000	OB2	15 Summer	30	+0%	30/15 Summer	100/15 Summer			37.501	0.033	0.000
2.001	S100	15 Summer	30	+0%	100/15 Summer	100/15 Summer			37.135	-0.117	0.000
4.000	OB3	15 Summer	30	+0%	100/15 Summer	100/15 Summer			36.678	-0.072	0.000
5.000	OB4	15 Summer	30	+0%	100/15 Summer	100/15 Summer			37.223	-0.137	0.000
2.002	S101	15 Summer	30	+0%	100/15 Summer	100/15 Summer			36.428	-0.060	0.000
6.000	OB5	15 Summer	30	+0%	100/15 Summer	100/30 Summer			37.256	-0.179	0.000
2.003	S102	15 Summer	30	+0%	30/15 Summer				36.234	0.117	0.000
7.000	OB6	15 Summer	30	+0%	30/15 Summer	100/15 Summer			36.719	0.009	0.000
8.000	OB7	15 Summer	30	+0%	100/15 Summer	100/15 Summer			37.218	-0.102	0.000
2.004	S103	15 Summer	30	+0%	30/15 Summer				35.959	0.450	0.000
2.005	S104	30 Summer	30	+0%	30/15 Summer				35.746	0.384	0.000
9.000	OB8	15 Summer	30	+0%	100/15 Summer				37.478	-0.080	0.000
2.006	S105	30 Summer	30	+0%	30/15 Summer				35.653	0.382	0.000
10.000	OB9	15 Summer	30	+0%	30/15 Summer	100/15 Summer			37.930	0.217	0.000
10.001	S106	15 Summer	30	+0%	100/15 Summer				37.516	-0.097	0.000
11.000	OB10	15 Summer	30	+0%	100/15 Summer	100/30 Summer			37.641	-0.147	0.000
10.002	S107	15 Summer	30	+0%	30/15 Summer				37.076	0.396	0.000
12.000	OB11	15 Summer	30	+0%	100/15 Summer				37.632	-0.156	0.000
10.003	S108	30 Summer	30	+0%	100/15 Summer				35.923	-0.057	0.000
13.000	OB12	15 Summer	30	+0%	100/15 Winter				37.617	-0.096	0.000
10.004	S109	30 Summer	30	+0%	30/15 Summer				35.737	0.317	0.000
2.007	S110	30 Summer	30	+0%	30/15 Summer				35.609	0.387	0.000
14.000	OB13	15 Summer	30	+0%	100/15 Summer	100/15 Summer			37.100	-0.115	0.000
15.000	OB14	15 Summer	30	+0%	100/15 Summer	100/15 Summer			36.581	-0.094	0.000
14.001	S111	15 Summer	30	+0%	30/15 Summer				35.901	0.276	0.000
16.000	OB15	15 Summer	30	+0%	100/30 Summer				37.595	-0.084	0.000
2.008	S112	30 Summer	30	+0%	30/15 Summer				35.523	0.457	0.000

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

PN	US/MH Name	Flow / Cap.	Overflow (1/s)	Half Drain Pipe		Status	Level Exceeded
				Time (mins)	Flow (1/s)		
2.000	OB1	0.63			19.4	OK	
3.000	OB2	1.07			24.2	SURCHARGED	2
2.001	S100	0.46			43.3	OK	2
4.000	OB3	0.79			43.0	OK	7
5.000	OB4	0.32			42.8	OK	
2.002	S101	0.87			124.2	OK	3
6.000	OB5	0.34			98.0	OK	3
2.003	S102	0.68			184.9	SURCHARGED	
7.000	OB6	0.89			106.5	SURCHARGED	7
8.000	OB7	0.57			108.8	OK	5
2.004	S103	1.60			353.3	SURCHARGED	
2.005	S104	1.58			333.1	SURCHARGED	
9.000	OB8	0.45			22.3	OK	
2.006	S105	1.28			337.8	SURCHARGED	
10.000	OB9	1.78			35.2	SURCHARGED	5
10.001	S106	0.60			34.2	OK	
11.000	OB10	0.26			38.5	OK	1
10.002	S107	1.23			62.1	SURCHARGED	
12.000	OB11	0.20			38.5	OK	
10.003	S108	0.92			87.8	OK	
13.000	OB12	0.28			26.9	OK	
10.004	S109	0.69			108.4	SURCHARGED	
2.007	S110	0.96			398.4	SURCHARGED	
14.000	OB13	0.48			85.1	OK	4
15.000	OB14	0.30			11.1	OK	5
14.001	S111	1.22			95.5	SURCHARGED	
16.000	OB15	0.40			24.9	OK	
2.008	S112	0.79			409.6	SURCHARGED	



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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)
17.000	OB16	15 Summer	30	+0%					37.592	-0.087	0.000
2.009	S113	30 Summer	30	+0%	30/15 Summer				35.409	0.583	0.000
18.000	OB17	15 Summer	30	+0%					37.590	-0.089	0.000
2.010	S114	30 Summer	30	+0%	30/15 Summer				35.289	0.704	0.000
19.000	OB18	15 Summer	30	+0%	30/15 Summer	100/15 Summer			38.332	0.487	0.000
19.001	S115	15 Summer	30	+0%	30/15 Summer				38.181	0.681	0.000
20.000	OB19	15 Summer	30	+0%	100/15 Summer				37.769	-0.076	0.000
19.002	S116	15 Summer	30	+0%	30/15 Summer				36.920	0.353	0.000
19.003	S117	15 Summer	30	+0%	30/15 Summer	100/15 Summer			36.364	0.277	0.000
21.000	OB20	15 Summer	30	+0%	100/15 Summer				37.052	-0.082	0.000
22.000	OB21	15 Summer	30	+0%	100/15 Summer				37.196	-0.089	0.000
19.004	S118	15 Summer	30	+0%	30/15 Summer				36.135	0.239	0.000
23.000	OB22	15 Summer	30	+0%	100/15 Summer	100/15 Summer			36.632	-0.118	0.000
24.000	OB23	15 Summer	30	+0%	100/15 Summer	100/15 Summer			37.253	-0.067	0.000
19.005	S119	15 Summer	30	+0%	30/15 Summer				36.049	0.211	0.000
25.000	OB24	15 Summer	30	+0%	100/15 Summer				37.236	-0.124	0.000
19.006	S120	30 Summer	30	+0%	30/15 Summer				35.804	0.226	0.000
26.000	OB25	15 Summer	30	+0%	100/15 Summer				37.246	-0.114	0.000
27.000	OB26	15 Summer	30	+0%	100/15 Summer	100/15 Summer			36.682	-0.068	0.000
19.007	S121	30 Summer	30	+0%	30/15 Summer				35.689	0.415	0.000
19.008	S122	30 Summer	30	+0%	30/15 Summer				35.600	0.520	0.000
19.009	S123	30 Summer	30	+0%	30/15 Summer				35.420	0.612	0.000
28.000	OB27	15 Summer	30	+0%					37.691	-0.072	0.000
19.010	S124	30 Summer	30	+0%	30/15 Summer				35.272	0.687	0.000
29.000	OB28	15 Summer	30	+0%	100/15 Summer				36.506	-0.080	0.000
2.011	S125	30 Summer	30	+0%	30/15 Summer				35.216	0.738	0.000
30.000	OB29	15 Summer	30	+0%	100/15 Summer				36.607	-0.068	0.000
31.000	OB30	15 Summer	30	+0%	100/15 Summer				37.114	-0.101	0.000
30.001	S126	15 Summer	30	+0%	30/15 Summer				36.432	0.097	0.000
2.012	S127	30 Summer	30	+0%	30/15 Summer				35.162	0.700	0.000
2.013	INT01	30 Summer	30	+0%	30/15 Summer				35.100	0.810	0.000
32.000	SDP01	15 Summer	30	+0%	1/15 Summer	100/15 Summer			38.852	0.977	0.000
33.000	RWP01	15 Summer	30	+0%	30/15 Summer				38.263	0.463	0.000
33.001	S200	15 Summer	30	+0%	30/15 Summer				38.260	0.837	0.000
34.000	RWP03	15 Summer	30	+0%	30/15 Summer				38.292	0.492	0.000
34.001	S201	15 Summer	30	+0%	30/15 Summer	100/15 Summer			38.278	0.970	0.000
35.000	RWP04	15 Summer	30	+0%	30/15 Summer				38.269	0.469	0.000
34.002	BRANCH	15 Summer	30	+0%					37.115	0.000	0.000
36.000	RWP05	15 Summer	30	+0%	30/15 Summer				38.258	0.458	0.000
34.003	BRANCH	15 Summer	30	+0%					36.922	0.000	0.000
37.000	RWP02	15 Summer	30	+0%	30/15 Summer				38.303	0.503	0.000
32.001	S202 (V)	15 Summer	30	+0%	30/15 Summer				38.299	1.438	0.000
32.002	S203	15 Summer	30	+0%	30/15 Summer	100/15 Summer			38.248	1.426	0.000
38.000	RWP06	15 Summer	30	+0%	30/15 Summer				38.107	0.307	0.000
32.003	BRANCH	15 Summer	30	+0%					36.677	0.000	0.000
39.000	SWP07	15 Summer	30	+0%	30/15 Summer				37.982	0.182	0.000
32.004	BRANCH	15 Summer	30	+0%					36.644	0.000	0.000
40.000	RWP08	15 Summer	30	+0%	30/15 Summer				37.925	0.125	0.000
32.005	S204	15 Summer	30	+0%	30/15 Summer	100/15 Summer			37.912	1.321	0.000
41.000	SDP02	15 Summer	30	+0%	1/15 Summer	100/15 Summer			38.877	1.002	0.000
42.000	RWP09	15 Summer	30	+0%	30/15 Summer				37.938	0.138	0.000
42.001	S205	15 Summer	30	+0%	30/15 Summer	100/15 Summer			37.936	0.564	0.000
43.000	RWP10	15 Summer	30	+0%	30/15 Summer				37.921	0.121	0.000
44.000	RWP11	15 Summer	30	+0%	30/15 Summer				37.932	0.721	0.000
45.000	RWP12	15 Summer	30	+0%	30/15 Summer				37.931	0.131	0.000

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

PN	US/MH Name	Flow / Cap.	Half Drain Pipe		Status	Level Exceeded	
			Overflow (1/s)	Time (mins)			Flow (1/s)
17.000	OB16	0.37			25.5	OK	
2.009	S113	0.77			403.0	SURCHARGED	
18.000	OB17	0.34			25.9	OK	
2.010	S114	0.88			407.1	SURCHARGED	
19.000	OB18	0.73			27.0	SURCHARGED	7
19.001	S115	1.18			23.2	SURCHARGED	
20.000	OB19	0.48			34.0	OK	
19.002	S116	1.07			48.0	SURCHARGED	
19.003	S117	1.36			54.6	SURCHARGED	7
21.000	OB20	0.42			27.3	OK	
22.000	OB21	0.34			19.1	OK	
19.004	S118	0.80			80.2	SURCHARGED	
23.000	OB22	0.46			46.7	OK	6
24.000	OB23	0.58			40.2	OK	5
19.005	S119	1.28			152.3	SURCHARGED	
25.000	OB24	0.41			77.6	OK	
19.006	S120	1.03			195.9	SURCHARGED	
26.000	OB25	0.49			99.1	OK	
27.000	OB26	0.82			109.3	OK	6
19.007	S121	0.99			352.0	SURCHARGED	
19.008	S122	0.64			325.8	SURCHARGED	
19.009	S123	0.58			275.6	SURCHARGED	
28.000	OB27	0.53			33.4	OK	
19.010	S124	1.12			282.2	SURCHARGED	
29.000	OB28	0.44			19.4	OK	
2.011	S125	2.07			619.1	SURCHARGED	
30.000	OB29	0.57			11.0	OK	
31.000	OB30	0.58			76.5	OK	
30.001	S126	1.13			87.1	SURCHARGED	
2.012	S127	1.10			645.1	SURCHARGED	
2.013	INT01	0.85			643.3	SURCHARGED	
32.000	SDP01	2.74			414.9	FLOOD RISK	7
33.000	RWP01	0.06			2.5	SURCHARGED	
33.001	S200	0.37			12.2	SURCHARGED	
34.000	RWP03	0.33			11.7	SURCHARGED	
34.001	S201	0.78			13.9	SURCHARGED	7
35.000	RWP04	0.27			11.3	SURCHARGED	
34.002	BRANCH	1.10			22.6	SURCHARGED*	
36.000	RWP05	0.25			11.7	SURCHARGED	
34.003	BRANCH	1.98			30.6	SURCHARGED*	
37.000	RWP02	0.04			2.5	SURCHARGED	
32.001	S202 (V)	2.33			395.4	SURCHARGED	
32.002	S203	1.53			327.3	FLOOD RISK	7
38.000	RWP06	0.11			6.8	SURCHARGED	
32.003	BRANCH	1.28			304.7	SURCHARGED*	
39.000	SWP07	0.10			6.2	SURCHARGED	
32.004	BRANCH	1.18			292.2	SURCHARGED*	
40.000	RWP08	0.11			6.2	SURCHARGED	
32.005	S204	0.78			266.4	FLOOD RISK	7
41.000	SDP02	2.76			418.7	FLOOD RISK	6
42.000	RWP09	0.06			2.5	SURCHARGED	
42.001	S205	0.33			11.7	SURCHARGED	1
43.000	RWP10	0.05			2.5	SURCHARGED	
44.000	RWP11	0.22			6.2	SURCHARGED	

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

PN	US/MH Name	Flow / Overflow Cap. (l/s)	Half Drain Pipe		Status	Level Exceeded
			Time (mins)	Flow (l/s)		
45.000	RWP12	0.11		6.2	SURCHARGED	



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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)
44.001	BRANCH	15	Summer	30	+0%				36.917	0.000	0.000
41.001	S206(V)	15	Summer	30	+0%	30/15	Summer		37.920	1.209	0.000
32.006	S207	15	Summer	30	+0%	30/15	Summer	100/15	37.739	1.419	0.000
46.000	RWP13	15	Summer	30	+0%	30/15	Summer		37.683	0.033	0.000
32.007	S208	15	Summer	30	+0%	30/15	Summer		37.677	1.425	0.000
32.008	S209	15	Summer	30	+0%	30/15	Summer		37.623	1.413	0.000
47.000	RWP14	15	Summer	30	+0%	100/15	Summer		37.874	-0.126	0.000
32.009	BRANCH	15	Summer	30	+0%				36.202	0.000	0.000
48.000	RWP15	15	Summer	30	+0%	100/15	Summer		37.890	-0.110	0.000
48.001	S210	15	Summer	30	+0%	100/15	Summer		37.537	-0.063	0.000
49.000	RWP16	15	Summer	30	+0%	100/15	Summer		37.883	-0.117	0.000
48.002	BRANCH	15	Summer	30	+0%				37.416	0.000	0.000
50.000	RWP17	15	Summer	30	+0%	100/15	Summer		37.847	-0.103	0.000
51.000	RWP18	15	Summer	30	+0%	100/15	Summer		37.844	-0.106	0.000
50.001	S211	15	Summer	30	+0%	100/15	Summer		37.468	-0.032	0.000
52.000	RWP19	15	Summer	30	+0%	100/15	Summer		37.469	-0.116	0.000
50.002	BRANCH	15	Summer	30	+0%				37.194	0.000	0.000
53.000	RWP20	15	Summer	30	+0%	100/15	Summer		37.875	-0.125	0.000
50.003	BRANCH	15	Summer	30	+0%				36.794	0.000	0.000
50.004	S212	15	Summer	30	+0%	30/15	Summer	100/30	37.443	0.798	0.000
32.010	S213	15	Summer	30	+0%	30/15	Summer		37.500	1.368	0.000
54.000	RWP21	15	Summer	30	+0%	100/15	Summer		37.880	-0.120	0.000
32.011	BRANCH	15	Summer	30	+0%				36.113	0.000	0.000
55.000	RWP22	15	Summer	30	+0%	100/15	Summer		37.880	-0.120	0.000
32.012	BRANCH	15	Summer	30	+0%				36.075	0.000	0.000
56.000	RWP23	15	Summer	30	+0%	100/15	Summer		37.879	-0.121	0.000
32.013	BRANCH	15	Summer	30	+0%				36.038	0.000	0.000
57.000	RWP24	15	Summer	30	+0%	100/15	Summer		37.879	-0.121	0.000
32.014	BRANCH	15	Summer	30	+0%				36.001	0.000	0.000
58.000	RWP25	15	Summer	30	+0%	100/30	Summer		37.879	-0.121	0.000
32.015	BRANCH	15	Summer	30	+0%				35.961	0.000	0.000
59.000	SDP12	15	Summer	30	+0%	30/15	Summer	100/15	38.549	0.824	0.000
60.000	SDP13	15	Summer	30	+0%	100/15	Summer		37.496	-0.154	0.000
61.000	SDP14	15	Summer	30	+0%	30/15	Summer	100/15	38.550	0.825	0.000
62.000	RWP29	15	Summer	30	+0%	100/15	Summer		37.523	-0.127	0.000
62.001	S214	30	Summer	30	+0%	30/30	Summer		37.287	0.037	0.000
63.000	RWP30	15	Summer	30	+0%	100/15	Summer		37.866	-0.134	0.000
61.001	S215(V)	30	Summer	30	+0%	1/15	Summer		37.258	1.238	0.000
64.000	RWP27	15	Summer	30	+0%	100/15	Summer		37.376	-0.124	0.000
64.001	S214a	30	Summer	30	+0%	100/15	Summer		37.183	-0.067	0.000
65.000	RWP28	15	Summer	30	+0%	100/15	Summer		37.866	-0.134	0.000
59.001	S216(V)	30	Summer	30	+0%	30/15	Summer		37.176	1.186	0.000
66.000	RWP26	15	Summer	30	+0%	100/30	Summer		37.887	-0.113	0.000
32.016	S217	30	Summer	30	+0%	30/15	Summer		37.056	1.132	0.000
67.000	RWP31	15	Summer	30	+0%				37.878	-0.122	0.000
32.017	BRANCH	15	Summer	30	+0%				35.890	0.000	0.000
68.000	RWP32	15	Summer	30	+0%				38.028	-0.122	0.000
32.018	BRANCH	15	Summer	30	+0%				35.857	0.000	0.000
69.000	RWP33	15	Summer	30	+0%				38.028	-0.122	0.000
32.019	BRANCH	15	Summer	30	+0%				35.820	0.000	0.000
70.000	RWP34	15	Summer	30	+0%				38.026	-0.124	0.000
32.020	BRANCH	15	Summer	30	+0%				35.791	0.000	0.000
71.000	RWP36	15	Summer	30	+0%				37.846	-0.104	0.000
72.000	RWP35	15	Summer	30	+0%				37.848	-0.102	0.000
71.001	S218	15	Summer	30	+0%	100/15	Summer		37.432	-0.068	0.000

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

PN	US/MH Name	Flow / Cap.	Half Drain Pipe		Status	Level Exceeded
			Overflow (1/s)	Time (mins)		
44.001	BRANCH	0.54			15.3 SURCHARGED*	
41.001	S206 (V)	1.16			407.3 SURCHARGED	
32.006	S207	1.05			489.1 SURCHARGED	2
46.000	RWP13	0.13			5.1 SURCHARGED	
32.007	S208	1.34			508.3 SURCHARGED	
32.008	S209	1.91			525.6 SURCHARGED	
47.000	RWP14	0.06			5.1 OK	
32.009	BRANCH	0.88			530.8 SURCHARGED*	
48.000	RWP15	0.16			5.1 OK	
48.001	S210	0.18			4.9 OK	
49.000	RWP16	0.11			5.1 OK	
48.002	BRANCH	0.35			9.7 SURCHARGED*	
50.000	RWP17	0.21			6.7 OK	
51.000	RWP18	0.18			6.7 OK	
50.001	S211	0.51			13.0 OK	
52.000	RWP19	0.11			4.5 OK	
50.002	BRANCH	0.61			17.3 SURCHARGED*	
53.000	RWP20	0.07			4.5 OK	
50.003	BRANCH	0.84			20.2 SURCHARGED*	
50.004	S212	1.10			19.6 SURCHARGED	3
32.010	S213	1.94			571.8 SURCHARGED	
54.000	RWP21	0.08			7.3 OK	
32.011	BRANCH	1.09			578.4 SURCHARGED*	
55.000	RWP22	0.09			7.5 OK	
32.012	BRANCH	1.10			585.0 SURCHARGED*	
56.000	RWP23	0.08			7.1 OK	
32.013	BRANCH	1.11			591.1 SURCHARGED*	
57.000	RWP24	0.08			7.5 OK	
32.014	BRANCH	1.09			597.2 SURCHARGED*	
58.000	RWP25	0.08			7.2 OK	
32.015	BRANCH	1.13			601.4 SURCHARGED*	
59.000	SDP12	1.61			452.1 SURCHARGED	6
60.000	SDP13	0.46			83.2 OK	
61.000	SDP14	1.61			452.1 SURCHARGED	6
62.000	RWP29	0.05			2.1 OK	
62.001	S214	0.35			4.2 SURCHARGED	
63.000	RWP30	0.02			2.1 OK	
61.001	S215 (V)	2.55			375.9 SURCHARGED	
64.000	RWP27	0.07			2.1 OK	
64.001	S214a	0.12			1.7 OK	
65.000	RWP28	0.03			2.1 OK	
59.001	S216 (V)	1.74			810.2 SURCHARGED	
66.000	RWP26	0.14			7.7 OK	
32.016	S217	2.03			956.7 SURCHARGED	
67.000	RWP31	0.08			7.0 OK	
32.017	BRANCH	1.24			947.0 SURCHARGED*	
68.000	RWP32	0.08			7.5 OK	
32.018	BRANCH	1.17			946.1 SURCHARGED*	
69.000	RWP33	0.08			7.6 OK	
32.019	BRANCH	1.24			946.7 SURCHARGED*	
70.000	RWP34	0.07			6.8 OK	
32.020	BRANCH	1.10			952.3 SURCHARGED*	
71.000	RWP36	0.20			7.2 OK	
72.000	RWP35	0.22			7.2 OK	

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PN	US/MH Name	Flow / Overflow Cap. (l/s)	Half Drain Pipe		Status	Level Exceeded
			Time (mins)	Flow (l/s)		
71.001	S218	0.55		14.0	OK	

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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
73.000	RWP37	15 Summer	30	+0%					37.879	-0.121
71.002	BRANCH	15 Summer	30	+0%					37.137	-0.057
74.000	RWP38	15 Summer	30	+0%					37.875	-0.125
71.003	S219	15 Summer	30	+0%	100/15 Summer				36.788	-0.039
75.000	RWP39	15 Summer	30	+0%					38.000	-0.150
32.021	S220	30 Summer	30	+0%	30/15 Summer				36.373	0.625
76.000	RWP40	15 Summer	30	+0%					38.029	-0.121
32.022	BRANCH	15 Summer	30	+0%					35.729	0.000
77.000	RWP41	15 Summer	30	+0%					38.028	-0.122
32.023	BRANCH	15 Summer	30	+0%					35.707	0.000
78.000	RWP42	15 Summer	30	+0%					38.038	-0.112
32.024	S221 (SUDS)	30 Summer	30	+0%	30/15 Summer				35.865	0.188
79.000	SDP03	15 Summer	30	+0%	1/15 Summer	100/15 Summer			38.936	1.061
80.000	RWP43	15 Summer	30	+0%	30/15 Summer				38.137	0.337
80.001	S222	15 Summer	30	+0%	30/15 Summer				38.135	0.712
81.000	RWP44	15 Summer	30	+0%	30/15 Summer				38.132	0.332
82.000	RWP45	15 Summer	30	+0%	30/15 Summer				38.216	0.416
82.001	S223	15 Summer	30	+0%	30/15 Summer	100/15 Summer			38.199	0.899
83.000	RWP46	15 Summer	30	+0%	30/15 Summer				38.205	0.405
82.002	BRANCH	15 Summer	30	+0%					37.120	0.000
84.000	RWP47	15 Summer	30	+0%	30/15 Summer				38.165	0.365
82.003	BRANCH	15 Summer	30	+0%					36.940	0.000
79.001	S224 (V)	15 Summer	30	+0%	1/15 Summer				38.130	1.246
79.002	S225	15 Summer	30	+0%	30/15 Summer	100/30 Summer			37.982	1.190
85.000	RWP48	15 Summer	30	+0%	30/15 Summer	100/15 Summer			37.845	0.245
79.003	BRANCH	15 Summer	30	+0%					36.748	0.000
86.000	RWP49	15 Summer	30	+0%	30/15 Summer				37.685	0.285
79.004	BRANCH	15 Summer	30	+0%					36.703	0.000
87.000	RWP50	15 Summer	30	+0%	30/15 Summer				37.507	0.107
79.005	BRANCH	15 Summer	30	+0%					36.658	0.000
88.000	RWP51	15 Summer	30	+0%	100/15 Summer				37.295	-0.105
79.006	BRANCH	15 Summer	30	+0%					36.613	0.000
89.000	RWP52	15 Summer	30	+0%					37.732	-0.118
79.007	BRANCH	15 Summer	30	+0%					36.589	0.000
90.000	RWP53	15 Summer	30	+0%	100/30 Summer				37.587	-0.118
79.008	BRANCH	15 Summer	30	+0%					36.554	0.000
91.000	RWP54	15 Summer	30	+0%	100/15 Summer				37.137	-0.113
79.009	S226	15 Summer	30	+0%	30/15 Summer				36.735	0.268
92.000	SDP04	15 Summer	30	+0%	1/15 Summer	100/15 Summer			38.877	1.002
93.000	RWP55	15 Summer	30	+0%	100/15 Summer				37.675	-0.125
93.001	S227	15 Summer	30	+0%	100/15 Summer				37.311	-0.111
94.000	RWP56	15 Summer	30	+0%	100/15 Summer				37.672	-0.128
95.000	RWP57	15 Summer	30	+0%	100/15 Summer				37.683	-0.117
96.000	RWP58	15 Summer	30	+0%	30/15 Summer				37.362	0.151
95.001	BRANCH	15 Summer	30	+0%					36.917	0.000
92.001	S228 (V)	15 Summer	30	+0%	30/15 Summer				37.310	0.599
79.010	S229	15 Summer	30	+0%	30/15 Summer				36.207	0.120
79.011	S230 (SUDS)	15 Summer	30	+0%	30/15 Summer				35.971	0.017
32.025	S231	15 Summer	30	+0%	30/15 Summer				35.710	0.047
2.014	S232	30 Summer	30	+0%	30/15 Summer				35.060	0.831
2.015	S233	30 Summer	30	+0%	30/15 Summer				34.940	0.833
97.000	RWP59	15 Summer	30	+0%					37.482	-0.118
98.000	RWP60	15 Summer	30	+0%					37.496	-0.104
2.016	S234	30 Summer	30	+0%	30/15 Summer				34.698	0.718
2.017	S235	30 Summer	30	+0%	30/15 Summer				34.406	0.537

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

PN	US/MH Name	Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Volume (m³)	Flow / Overflow Cap. (l/s)				
73.000	RWP37	0.000	0.08		4.5	OK	
71.002	BRANCH	0.000	0.65		18.3	OK*	
74.000	RWP38	0.000	0.07		4.5	OK	
71.003	S219	0.000	0.88		23.1	OK	
75.000	RWP39	0.000	0.00		0.0	OK	
32.021	S220	0.000	2.39		961.1	SURCHARGED	
76.000	RWP40	0.000	0.08		7.8	OK	
32.022	BRANCH	0.000	1.25		954.3	SURCHARGED*	
77.000	RWP41	0.000	0.08		7.8	OK	
32.023	BRANCH	0.000	1.25		954.3	SURCHARGED*	
78.000	RWP42	0.000	0.14		7.8	OK	
32.024	S221 (SUDES)	0.000	1.96		959.4	SURCHARGED	
79.000	SDP03	0.000	2.66		402.7	FLOOD RISK	6
80.000	RWP43	0.000	0.06		2.4	SURCHARGED	
80.001	S222	0.000	0.36		11.6	SURCHARGED	
81.000	RWP44	0.000	0.04		2.4	SURCHARGED	
82.000	RWP45	0.000	0.30		10.8	SURCHARGED	
82.001	S223	0.000	0.71		12.2	SURCHARGED	6
83.000	RWP46	0.000	0.30		12.7	SURCHARGED	
82.002	BRANCH	0.000	1.06		21.1	SURCHARGED*	
84.000	RWP47	0.000	0.24		11.1	SURCHARGED	
82.003	BRANCH	0.000	1.95		28.9	SURCHARGED*	
79.001	S224 (V)	0.000	1.43		355.7	SURCHARGED	
79.002	S225	0.000	1.95		337.7	SURCHARGED	3
85.000	RWP48	0.000	0.15		6.6	SURCHARGED	6
79.003	BRANCH	0.000	1.36		339.3	SURCHARGED*	
86.000	RWP49	0.000	0.23		9.1	SURCHARGED	
79.004	BRANCH	0.000	1.37		340.0	SURCHARGED*	
87.000	RWP50	0.000	0.23		9.2	SURCHARGED	
79.005	BRANCH	0.000	1.37		339.6	SURCHARGED*	
88.000	RWP51	0.000	0.16		6.6	OK	
79.006	BRANCH	0.000	1.36		337.8	SURCHARGED*	
89.000	RWP52	0.000	0.10		6.7	OK	
79.007	BRANCH	0.000	1.35		336.1	SURCHARGED*	
90.000	RWP53	0.000	0.10		6.2	OK	
79.008	BRANCH	0.000	1.36		337.8	SURCHARGED*	
91.000	RWP54	0.000	0.14		6.2	OK	
79.009	S226	0.000	1.12		322.3	SURCHARGED	
92.000	SDP04	0.000	2.76		418.7	FLOOD RISK	5
93.000	RWP55	0.000	0.06		2.4	OK	
93.001	S227	0.000	0.06		2.3	OK	
94.000	RWP56	0.000	0.05		2.4	OK	
95.000	RWP57	0.000	0.11		6.2	OK	
96.000	RWP58	0.000	0.22		6.2	SURCHARGED	
95.001	BRANCH	0.000	0.53		15.1	SURCHARGED*	
92.001	S228 (V)	0.000	1.36		421.1	SURCHARGED	
79.010	S229	0.000	1.32		617.4	SURCHARGED	
79.011	S230 (SUDES)	0.000	0.91		624.0	SURCHARGED	
32.025	S231	0.000	2.45		1575.9	SURCHARGED	
2.014	S232	0.000	1.36		2107.7	SURCHARGED	
2.015	S233	0.000	1.52		2065.6	SURCHARGED	
97.000	RWP59	0.000	0.11		6.4	OK	
98.000	RWP60	0.000	0.20		12.2	OK	
2.016	S234	0.000	1.69		2042.0	SURCHARGED	

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

PN	US/MH Name	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
2.017	S235	0.000	1.86		2019.6	SURCHARGED	

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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
99.000	RWP61	15 Summer	30	+0%	100/15 Summer				37.802	-0.098
99.001	S236	15 Summer	30	+0%	100/15 Summer				37.660	-0.085
100.000	RWP62	15 Summer	30	+0%	100/15 Summer				37.805	-0.095
99.002	BRANCH	15 Summer	30	+0%					37.552	-0.036
99.003	S237	15 Summer	30	+0%	30/15 Summer				37.366	0.013
101.000	RWP63	15 Summer	30	+0%					37.681	-0.119
99.004	BRANCH	15 Summer	30	+0%					37.221	0.000
102.000	RWP64	15 Summer	30	+0%					37.828	-0.122
99.005	S238	15 Summer	30	+0%					35.526	-0.131
103.000	RWP65	15 Summer	30	+0%					37.096	-0.110
99.006	BRANCH	15 Summer	30	+0%					35.050	-0.107
104.000	RWP66	15 Summer	30	+0%					37.077	-0.119
99.007	BRANCH	15 Summer	30	+0%					34.808	-0.089
105.000	RWP67	15 Summer	30	+0%					36.830	-0.126
2.018	S239	30 Summer	30	+0%	30/15 Summer				34.141	0.353
2.019	ATT INLET 01	30 Summer	30	+0%					33.775	0.000
106.000	SDP05	15 Summer	30	+0%	1/15 Summer	100/15 Summer			38.885	1.010
106.001	S400 (V)	15 Summer	30	+0%	30/15 Summer	100/15 Summer			38.414	1.064
107.000	RWP60	15 Summer	30	+0%	30/15 Summer				38.135	0.335
106.002	S401	15 Summer	30	+0%	30/15 Summer	100/15 Summer			38.126	1.117
108.000	RWP61	15 Summer	30	+0%	30/15 Summer				37.972	0.172
106.003	BRANCH	15 Summer	30	+0%					36.972	0.000
109.000	RWP62	15 Summer	30	+0%	30/15 Summer				37.855	0.055
106.004	BRANCH	15 Summer	30	+0%					36.880	0.000
110.000	RWP63	15 Summer	30	+0%	100/15 Summer				37.738	-0.062
106.005	S402	15 Summer	30	+0%	30/15 Summer	100/30 Summer			37.735	0.914
111.000	RWP64	15 Summer	30	+0%	100/15 Summer				37.697	-0.103
106.006	BRANCH	15 Summer	30	+0%					36.790	0.000
112.000	RWP65	15 Summer	30	+0%	100/15 Summer				37.656	-0.144
106.007	BRANCH	15 Summer	30	+0%					36.750	0.000
113.000	SDP06	15 Summer	30	+0%	1/15 Summer	100/15 Summer			38.804	0.929
106.008	S403	15 Summer	30	+0%	30/15 Summer	100/30 Summer			37.550	0.844
114.000	RWP66	15 Summer	30	+0%	100/15 Summer				37.675	-0.125
106.009	BRANCH	15 Summer	30	+0%					36.680	0.000
115.000	RWP67	15 Summer	30	+0%	100/15 Summer				37.676	-0.124
106.010	BRANCH	15 Summer	30	+0%					36.645	0.000
116.000	RWP68	15 Summer	30	+0%	100/15 Summer				37.675	-0.125
106.011	BRANCH	15 Summer	30	+0%					36.607	0.000
117.000	RWP69	15 Summer	30	+0%	100/15 Summer				37.695	-0.105
106.012	S404	30 Summer	30	+0%	30/15 Summer				37.081	0.542
118.000	RWP70	15 Summer	30	+0%	100/15 Summer				37.891	-0.109
106.013	BRANCH	15 Summer	30	+0%					36.513	0.000
106.014	S405	30 Summer	30	+0%	30/15 Summer	100/15 Summer			36.844	0.354
119.000	RWP71	15 Summer	30	+0%	100/15 Summer				38.010	-0.090
119.001	S406	15 Summer	30	+0%	30/15 Summer	100/15 Summer			37.836	0.211
120.000	RWP72	15 Summer	30	+0%	100/15 Summer				38.008	-0.092
119.002	BRANCH	15 Summer	30	+0%					37.305	0.000
121.000	RWP73	15 Summer	30	+0%	100/15 Summer				38.010	-0.090
119.003	S407	15 Summer	30	+0%	30/15 Summer	100/30 Summer			37.593	0.648
106.015	S408	30 Summer	30	+0%	30/15 Summer	100/15 Winter			36.551	0.253
122.000	RWP74	15 Summer	30	+0%	30/15 Summer	100/30 Summer			37.751	0.001
122.001	S409	15 Summer	30	+0%	30/15 Summer	100/15 Summer			37.736	0.030
123.000	RWP75	15 Summer	30	+0%	100/15 Summer	100/30 Summer			37.754	-0.096
122.002	BRANCH	15 Summer	30	+0%					37.636	0.000
124.000	RWP76	15 Summer	30	+0%	100/15 Summer				37.746	-0.104

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

PN	US/MH Name	Flooded Volume (m³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
99.000	RWP61	0.000	0.26		6.4	OK	
99.001	S236	0.000	0.39		6.4	OK	
100.000	RWP62	0.000	0.29		10.0	OK	
99.002	BRANCH	0.000	0.92		16.3	OK*	
99.003	S237	0.000	1.00		15.2	SURCHARGED	
101.000	RWP63	0.000	0.09		4.5	OK	
99.004	BRANCH	0.000	1.07		19.0	SURCHARGED*	
102.000	RWP64	0.000	0.08		4.5	OK	
99.005	S238	0.000	0.36		22.8	OK	
103.000	RWP65	0.000	0.16		14.2	OK	
99.006	BRANCH	0.000	0.54		36.2	OK*	
104.000	RWP66	0.000	0.09		8.7	OK	
99.007	BRANCH	0.000	0.67		44.8	OK*	
105.000	RWP67	0.000	0.06		4.8	OK	
2.018	S239	0.000	2.19		2017.2	SURCHARGED	
2.019	ATT INLET 01	0.000	1.02		2005.6	SURCHARGED*	
106.000	SDP05	0.000	2.54		384.4	FLOOD RISK	7
106.001	S400 (V)	0.000	1.10		303.6	FLOOD RISK	7
107.000	RWP60	0.000	0.08		4.5	SURCHARGED	
106.002	S401	0.000	1.52		288.8	SURCHARGED	7
108.000	RWP61	0.000	0.08		4.5	SURCHARGED	
106.003	BRANCH	0.000	1.16		288.6	SURCHARGED*	
109.000	RWP62	0.000	0.04		2.2	SURCHARGED	
106.004	BRANCH	0.000	1.16		289.6	SURCHARGED*	
110.000	RWP63	0.000	0.07		4.5	OK	
106.005	S402	0.000	1.32		286.9	SURCHARGED	1
111.000	RWP64	0.000	0.07		4.5	OK	
106.006	BRANCH	0.000	0.83		286.0	SURCHARGED*	
112.000	RWP65	0.000	0.00		0.0	OK	
106.007	BRANCH	0.000	0.85		291.0	SURCHARGED*	
113.000	SDP06	0.000	2.67		404.0	FLOOD RISK	6
106.008	S403	0.000	2.12		524.0	SURCHARGED	
114.000	RWP66	0.000	0.07		4.3	OK	
106.009	BRANCH	0.000	1.29		519.8	SURCHARGED*	
115.000	RWP67	0.000	0.07		4.5	OK	
106.010	BRANCH	0.000	1.26		510.4	SURCHARGED*	
116.000	RWP68	0.000	0.07		4.5	OK	
106.011	BRANCH	0.000	1.07		496.7	SURCHARGED*	
117.000	RWP69	0.000	0.19		10.5	OK	
106.012	S404	0.000	2.21		502.1	SURCHARGED	
118.000	RWP70	0.000	0.16		10.5	OK	
106.013	BRANCH	0.000	1.40		501.4	SURCHARGED*	
106.014	S405	0.000	1.24		466.8	SURCHARGED	7
119.000	RWP71	0.000	0.33		13.4	OK	
119.001	S406	0.000	0.49		10.8	SURCHARGED	5
120.000	RWP72	0.000	0.31		16.6	OK	
119.002	BRANCH	0.000	0.77		19.6	SURCHARGED*	
121.000	RWP73	0.000	0.33		20.2	OK	
119.003	S407	0.000	1.41		33.2	SURCHARGED	2
106.015	S408	0.000	0.91		468.3	SURCHARGED	
122.000	RWP74	0.000	0.74		9.8	SURCHARGED	1
122.001	S409	0.000	0.69		8.8	SURCHARGED	5
123.000	RWP75	0.000	0.28		8.0	OK	3
122.002	BRANCH	0.000	0.94		15.6	SURCHARGED*	

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

PN	US/MH Name	Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Volume (m ³)	Flow / Overflow Cap. (l/s)				
124.000	RWP76	0.000	0.21		6.9	OK	

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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	
122.003	BRANCH	15	Summer	30	+0%				37.566	0.000	
125.000	SDP7	15	Summer	30	+0%	30/15	Summer	100/15	Summer	38.434	0.484
126.000	SDP8	15	Summer	30	+0%	100/15	Summer			37.679	-0.271
122.004	S410 (V)	15	Summer	30	+0%	30/15	Summer	100/15	Summer	37.499	0.429
127.000	SDP9	15	Summer	30	+0%	30/15	Summer	100/15	Summer	38.436	0.486
122.005	S411 (V)	15	Summer	30	+0%	30/15	Summer	100/15	Summer	37.459	0.438
128.000	RWP77	15	Summer	30	+0%	100/15	Summer			37.744	-0.106
122.006	BRANCH	15	Summer	30	+0%					36.887	0.000
129.000	RWP78	15	Summer	30	+0%	100/15	Summer			37.742	-0.108
122.007	BRANCH	15	Summer	30	+0%					36.650	0.000
130.000	RWP79	15	Summer	30	+0%	100/15	Summer			37.725	-0.125
130.001	S412	15	Summer	30	+0%	100/15	Summer			37.434	-0.116
131.000	RWP80	15	Summer	30	+0%	100/15	Summer	100/15	Summer	37.347	-0.053
130.002	S413	15	Summer	30	+0%	100/15	Summer			37.295	-0.036
132.000	RWP81	15	Summer	30	+0%	100/15	Summer			37.871	-0.129
130.003	BRANCH	15	Summer	30	+0%					37.188	0.000
133.000	RWP82	15	Summer	30	+0%	100/15	Summer	100/15	Summer	37.263	-0.087
130.004	BRANCH	15	Summer	30	+0%					37.083	0.000
134.000	RWP83	15	Summer	30	+0%	100/15	Summer			37.868	-0.132
130.005	BRANCH	15	Summer	30	+0%					36.896	0.000
135.000	RWP84	15	Summer	30	+0%	100/15	Summer			37.867	-0.133
130.006	S414	15	Summer	30	+0%	30/15	Summer			36.763	0.117
122.008	S415	30	Summer	30	+0%	30/15	Summer			36.498	0.043
106.016	S416	15	Summer	30	+0%	30/15	Summer	100/15	Summer	36.440	0.315
136.000	RWP85	15	Summer	30	+0%	100/15	Summer			36.889	-0.111
106.017	S417	15	Summer	30	+0%	30/15	Summer	100/15	Summer	36.284	0.241
137.000	RWP86	15	Summer	30	+0%	100/15	Summer			36.889	-0.111
106.018	S418	30	Summer	30	+0%	30/15	Summer	100/15	Summer	36.161	0.180
106.019	S419	30	Summer	30	+0%	30/15	Summer			36.063	0.194
138.000	RWP87	15	Summer	30	+0%					37.890	-0.110
106.020	BRANCH	15	Summer	30	+0%					35.829	0.000
139.000	RWP88	15	Summer	30	+0%					37.895	-0.105
106.021	BRANCH	15	Summer	30	+0%					35.802	0.000
140.000	RWP89	15	Summer	30	+0%					37.890	-0.110
106.022	S420	30	Summer	30	+0%	30/15	Summer			35.930	0.170
141.000	RWP90	15	Summer	30	+0%					37.885	-0.115
106.023	BRANCH	15	Summer	30	+0%					35.728	0.000
142.000	RWP91	15	Summer	30	+0%					37.884	-0.116
106.024	BRANCH	15	Summer	30	+0%					35.703	0.000
143.000	RWP92	15	Summer	30	+0%					37.884	-0.116
106.025	BRANCH	15	Summer	30	+0%					35.675	0.000
144.000	GULLEY	15	Summer	30	+0%	30/15	Summer	100/15	Summer	37.994	0.044
144.001	S421	15	Summer	30	+0%	30/15	Summer			37.811	0.069
106.026	S422	30	Summer	30	+0%	30/15	Summer			35.781	0.128
145.000	RWP93	15	Summer	30	+0%					37.850	-0.150
106.027	BRANCH	15	Summer	30	+0%					35.643	0.000
146.000	RWP94	15	Summer	30	+0%					37.850	-0.150
106.028	BRANCH	15	Summer	30	+0%					35.616	0.000
147.000	RWP95	15	Summer	30	+0%					37.850	-0.150
106.029	BRANCH	15	Summer	30	+0%					35.578	0.000
148.000	RWP96	15	Summer	30	+0%					37.850	-0.150
106.030	S423	30	Summer	30	+0%	30/30	Summer			35.585	0.034
149.000	RWP96	15	Summer	30	+0%					37.889	-0.111
106.031	BRANCH	30	Summer	30	+0%					35.517	0.000
150.000	RWP97	15	Summer	30	+0%					37.889	-0.111

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

PN	US/MH Name	Flooded		Half Drain Pipe		Status	Level Exceeded
		Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)		
122.003	BRANCH	0.000	1.61		21.6	SURCHARGED*	
125.000	SDP7	0.000	2.03		422.5	SURCHARGED	5
126.000	SDP8	0.000	0.32		65.9	OK	
122.004	S410 (V)	0.000	0.87		480.5	SURCHARGED	5
127.000	SDP9	0.000	2.04		422.3	SURCHARGED	5
122.005	S411 (V)	0.000	1.46		884.6	SURCHARGED	4
128.000	RWP77	0.000	0.19		9.1	OK	
122.006	BRANCH	0.000	1.17		891.5	SURCHARGED*	
129.000	RWP78	0.000	0.17		9.1	OK	
122.007	BRANCH	0.000	1.31		904.4	SURCHARGED*	
130.000	RWP79	0.000	0.06		2.0	OK	
130.001	S412	0.000	0.11		1.9	OK	
131.000	RWP80	0.000	0.72		10.7	OK	7
130.002	S413	0.000	0.72		11.7	OK	
132.000	RWP81	0.000	0.05		2.7	OK	
130.003	BRANCH	0.000	0.67		12.0	SURCHARGED*	
133.000	RWP82	0.000	0.36		10.5	OK	6
130.004	BRANCH	0.000	1.09		19.3	SURCHARGED*	
134.000	RWP83	0.000	0.03		2.3	OK	
130.005	BRANCH	0.000	1.06		18.9	SURCHARGED*	
135.000	RWP84	0.000	0.03		2.3	OK	
130.006	S414	0.000	1.27		19.5	SURCHARGED	
122.008	S415	0.000	0.87		784.3	SURCHARGED	
106.016	S416	0.000	1.28		928.1	SURCHARGED	5
136.000	RWP85	0.000	0.15		9.3	OK	
106.017	S417	0.000	1.33		905.2	SURCHARGED	6
137.000	RWP86	0.000	0.15		9.5	OK	
106.018	S418	0.000	1.11		846.0	SURCHARGED	2
106.019	S419	0.000	1.55		844.6	SURCHARGED	
138.000	RWP87	0.000	0.16		13.3	OK	
106.020	BRANCH	0.000	1.07		819.0	SURCHARGED*	
139.000	RWP88	0.000	0.20		16.9	OK	
106.021	BRANCH	0.000	0.96		827.3	SURCHARGED*	
140.000	RWP89	0.000	0.16		13.6	OK	
106.022	S420	0.000	1.81		831.0	SURCHARGED	
141.000	RWP90	0.000	0.12		10.6	OK	
106.023	BRANCH	0.000	1.03		784.0	SURCHARGED*	
142.000	RWP91	0.000	0.11		10.0	OK	
106.024	BRANCH	0.000	1.04		793.1	SURCHARGED*	
143.000	RWP92	0.000	0.12		10.4	OK	
106.025	BRANCH	0.000	1.04		793.0	SURCHARGED*	
144.000	GULLEY	0.000	0.91		25.9	SURCHARGED	1
144.001	S421	0.000	1.08		25.3	SURCHARGED	
106.026	S422	0.000	1.65		850.7	SURCHARGED	
145.000	RWP93	0.000	0.00		0.0	OK	
106.027	BRANCH	0.000	0.97		749.8	SURCHARGED*	
146.000	RWP94	0.000	0.00		0.0	OK	
106.028	BRANCH	0.000	0.93		760.4	SURCHARGED*	
147.000	RWP95	0.000	0.00		0.0	OK	
106.029	BRANCH	0.000	0.99		766.2	SURCHARGED*	
148.000	RWP96	0.000	0.00		0.0	OK	
106.030	S423	0.000	1.77		842.3	SURCHARGED	
149.000	RWP96	0.000	0.15		13.6	OK	
106.031	BRANCH	0.000	1.09		829.4	SURCHARGED*	

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

PN	US/MH Name	Flooded		Half Drain Pipe		Status	Level Exceeded
		Volume (m ³)	Flow / Overflow Cap. (1/s)	Time (mins)	Flow (1/s)		
150.000	RWP97	0.000	0.15		13.6	OK	

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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
106.032	BRANCH	60 Summer	30	+0%					35.497	0.000
151.000	SDP10	15 Summer	30	+0%	1/15 Summer	100/15 Summer			38.946	1.071
151.001	S424(V)	15 Summer	30	+0%	30/15 Summer				38.088	0.738
152.000	RWP98	15 Summer	30	+0%	100/15 Summer				37.887	-0.113
151.002	S425	15 Summer	30	+0%	30/15 Summer				37.867	0.555
153.000	RWP99	15 Summer	30	+0%	100/15 Summer				37.655	-0.095
151.003	BRANCH	15 Summer	30	+0%					37.243	0.000
154.000	RWP100	15 Summer	30	+0%					37.622	-0.128
151.004	BRANCH	15 Summer	30	+0%					37.237	0.000
106.033	S426	60 Summer	30	+0%	100/15 Summer				35.365	-0.075
155.000	RWP101	15 Summer	30	+0%					37.892	-0.108
155.001	S427	15 Summer	30	+0%					37.441	-0.091
156.000	RWP102	15 Summer	30	+0%					37.640	-0.110
155.002	BRANCH	15 Summer	30	+0%					37.185	0.000
157.000	RWP103	15 Summer	30	+0%					37.621	-0.129
155.003	BRANCH	15 Summer	30	+0%					37.109	-0.045
106.034	S428	30 Summer	30	+0%	100/15 Summer				35.251	0.000
158.000	RWP106	15 Summer	30	+0%					37.831	-0.119
158.001	S429	15 Summer	30	+0%	30/15 Summer				37.819	0.010
159.000	RWP107	15 Summer	30	+0%					37.870	-0.130
160.000	SDP11	15 Summer	30	+0%	1/15 Summer	100/15 Summer			38.814	0.939
158.002	S430(V)	15 Summer	30	+0%	30/15 Summer				37.811	0.461
106.035	S431	30 Summer	30	+0%	30/30 Summer				35.104	0.054
106.036	S432(SUDS)	60 Summer	30	+0%	100/15 Summer				34.992	0.000
106.037	ATT INLET	03 30 Summer	30	+0%					34.648	-0.320
161.000	OB31	15 Summer	30	+0%	30/15 Summer	100/15 Summer			37.933	0.278
161.001	S300	15 Summer	30	+0%	100/15 Summer				37.498	-0.089
162.000	OB32	15 Summer	30	+0%	100/15 Summer	100/15 Summer			37.569	-0.086
161.002	S301	15 Summer	30	+0%	30/15 Summer				36.827	0.115
163.000	OB33	15 Summer	30	+0%	100/15 Summer				37.271	-0.110
161.003	BRANCH	15 Summer	30	+0%					36.306	0.000
161.004	S302	15 Summer	30	+0%	100/15 Summer				36.110	-0.043
164.000	OB34	15 Summer	30	+0%	100/15 Summer	100/15 Summer			36.740	-0.125
161.005	BRANCH	15 Summer	30	+0%					35.864	0.000
165.000	OB37	15 Summer	30	+0%	100/15 Summer	100/15 Summer			36.647	-0.068
166.000	OB35	15 Summer	30	+0%	100/15 Summer	100/15 Summer			36.633	-0.077
166.001	S303	15 Summer	30	+0%	30/15 Summer				35.991	0.281
167.000	OB36	15 Summer	30	+0%	100/15 Summer	100/15 Summer			37.055	-0.120
161.006	S304	15 Summer	30	+0%	30/15 Summer				35.673	0.372
168.000	OB38	15 Summer	30	+0%	100/15 Summer	100/15 Summer			36.672	-0.118
161.007	S305	15 Summer	30	+0%	30/15 Summer				35.396	0.295
169.000	OB39	15 Summer	30	+0%	100/15 Summer				36.658	-0.132
161.008	BRANCH	15 Summer	30	+0%					34.930	0.000
170.000	OB40	15 Summer	30	+0%	100/30 Summer				36.941	-0.092
161.009	S306	30 Summer	30	+0%	30/15 Summer				35.049	0.166
171.000	OB40a	15 Summer	30	+0%					36.948	-0.085
172.000	OB41	15 Summer	30	+0%	100/15 Summer				36.690	-0.100
161.010	S307	30 Summer	30	+0%	30/15 Summer				34.876	0.080
173.000	OB42	15 Summer	30	+0%					36.700	-0.150
161.011	BRANCH	15 Summer	30	+0%					34.721	0.000
174.000	OB43	15 Summer	30	+0%	100/15 Summer				37.356	-0.059
161.012	S308	30 Summer	30	+0%	30/15 Winter				34.660	0.001
175.000	OB44	15 Summer	30	+0%					37.481	-0.084
161.013	BRANCH	30 Summer	30	+0%					34.439	-0.135
176.000	OB45	15 Summer	30	+0%	100/15 Summer				37.537	-0.103

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

PN	US/MH Name	Flooded		Half Drain Pipe		Status	Level Exceeded
		Volume (m³)	Flow / Overflow Cap. (l/s)	Time (mins)	Flow (l/s)		
106.032	BRANCH	0.000	0.81		757.3	OK*	
151.000	SDP10	0.000	2.40		363.3	FLOOD RISK	5
151.001	S424 (V)	0.000	2.20		350.3	SURCHARGED	
152.000	RWP98	0.000	0.14		7.2	OK	
151.002	S425	0.000	1.79		358.1	SURCHARGED	
153.000	RWP99	0.000	0.16		7.2	OK	
151.003	BRANCH	0.000	1.46		362.6	SURCHARGED*	
154.000	RWP100	0.000	0.05		2.3	OK	
151.004	BRANCH	0.000	1.46		362.9	SURCHARGED*	
106.033	S426	0.000	0.72		840.4	OK	
155.000	RWP101	0.000	0.17		7.2	OK	
155.001	S427	0.000	0.31		6.9	OK	
156.000	RWP102	0.000	0.15		7.2	OK	
155.002	BRANCH	0.000	1.30		14.4	SURCHARGED*	
157.000	RWP103	0.000	0.05		2.3	OK	
155.003	BRANCH	0.000	0.81		16.8	OK*	
106.034	S428	0.000	0.73		860.6	OK	
158.000	RWP106	0.000	0.09		2.1	OK	
158.001	S429	0.000	0.07		2.1	SURCHARGED	
159.000	RWP107	0.000	0.04		2.1	OK	
160.000	SDP11	0.000	2.59		393.2	FLOOD RISK	5
158.002	S430 (V)	0.000	2.00		390.7	SURCHARGED	
106.035	S431	0.000	1.38		914.5	SURCHARGED	
106.036	S432 (SUDS)	0.000	1.40		911.3	OK	
106.037	ATT INLET 03	0.000	0.79		918.9	OK*	
161.000	OB31	0.000	2.25		36.8	SURCHARGED	5
161.001	S300	0.000	0.66		35.7	OK	
162.000	OB32	0.000	0.38		23.0	OK	3
161.002	S301	0.000	1.07		52.8	SURCHARGED	
163.000	OB33	0.000	0.16		10.4	OK	
161.003	BRANCH	0.000	1.16		60.4	SURCHARGED*	
161.004	S302	0.000	0.62		63.2	OK	
164.000	OB34	0.000	0.41		57.5	OK	5
161.005	BRANCH	0.000	0.81		102.9	SURCHARGED*	
165.000	OB37	0.000	0.58		43.1	OK	5
166.000	OB35	0.000	0.47		20.1	OK	5
166.001	S303	0.000	0.97		16.7	SURCHARGED	
167.000	OB36	0.000	0.44		78.0	OK	2
161.006	S304	0.000	1.25		213.9	SURCHARGED	
168.000	OB38	0.000	0.46		83.3	OK	2
161.007	S305	0.000	1.12		261.2	SURCHARGED	
169.000	OB39	0.000	0.36		68.3	OK	
161.008	BRANCH	0.000	1.23		305.1	SURCHARGED*	
170.000	OB40	0.000	0.32		11.9	OK	
161.009	S306	0.000	1.46		301.6	SURCHARGED	
171.000	OB40a	0.000	0.39		14.7	OK	
172.000	OB41	0.000	0.59		48.5	OK	
161.010	S307	0.000	1.13		330.4	SURCHARGED	
173.000	OB42	0.000	0.00		0.0	OK	
161.011	BRANCH	0.000	0.90		312.4	SURCHARGED*	
174.000	OB43	0.000	0.68		43.8	OK	
161.012	S308	0.000	1.11		332.4	SURCHARGED	
175.000	OB44	0.000	0.40		43.5	OK	
161.013	BRANCH	0.000	0.94		343.0	OK*	

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

PN	US/MH Name	Flooded		Half Drain Pipe		Status	Level Exceeded
		Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)		
176.000	OB45	0.000	0.56		96.9	OK	



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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
161.014	S309	30 Summer	30	+0%	100/15 Summer				34.278	-0.125
177.000	OB46	15 Summer	30	+0%					37.454	-0.111
161.015	S310	30 Summer	30	+0%	100/15 Summer				34.182	-0.069
178.000	OB47	15 Summer	30	+0%					37.411	-0.104
161.016	BRANCH	30 Summer	30	+0%					34.101	-0.100
179.000	OB48	15 Summer	30	+0%					37.440	-0.110
180.000	OB49	15 Summer	30	+0%	100/15 Summer				37.608	-0.060
161.017	S311	30 Summer	30	+0%	100/15 Summer				34.007	-0.068
181.000	OB50	15 Summer	30	+0%	100/15 Summer				37.571	-0.046
181.001	S312	15 Summer	30	+0%	100/15 Summer				37.412	-0.031
182.000	OB51	15 Summer	30	+0%					37.575	-0.092
181.002	S313	15 Summer	30	+0%	100/15 Summer				36.924	-0.101
183.000	OB52	15 Summer	30	+0%					37.492	-0.088
181.003	BRANCH	15 Summer	30	+0%					36.360	-0.006
181.004	S314	15 Summer	30	+0%	30/15 Summer				36.132	0.052
184.000	OB53	15 Summer	30	+0%					37.423	-0.107
161.018	S315	30 Winter	30	+0%	100/15 Summer				33.899	-0.036
161.019	INT02 (SUDS)	30 Winter	30	+0%	30/15 Summer				33.806	0.002
161.020	S316	60 Winter	30	+0%	100/15 Summer				33.773	0.000
161.021	ATT INLET 02	120 Summer	30	+0%					33.750	0.000
2.020	ATT TANK 01	120 Summer	30	+0%	30/60 Summer				33.627	0.027
2.021	CONNECTION	120 Summer	30	+0%	100/30 Summer				33.452	-0.098
185.000	OB60	15 Summer	30	+0%	100/15 Summer	100/15 Summer			37.444	-0.155
186.000	OB61	15 Summer	30	+0%	30/15 Summer	100/15 Summer			37.555	0.118
185.001	S500	15 Summer	30	+0%	30/15 Summer				37.385	0.190
185.002	S501	15 Summer	30	+0%	30/15 Summer				37.265	0.225
187.000	OB62	15 Summer	30	+0%	100/15 Summer	100/15 Summer			37.175	-0.103
185.003	BRANCH	15 Summer	30	+0%					36.871	0.000
188.000	OB63	15 Summer	30	+0%	100/15 Summer				37.011	-0.030
189.000	OB64	15 Summer	30	+0%	30/15 Summer	100/15 Summer			37.162	0.243
185.004	S502	15 Summer	30	+0%	30/15 Summer				36.993	0.357
190.000	OB65	15 Summer	30	+0%	30/15 Summer	100/15 Summer			36.851	0.132
185.005	BRANCH	15 Summer	30	+0%					36.508	0.000
191.000	OB66	15 Summer	30	+0%	100/15 Summer				36.656	-0.113
185.006	S503	15 Summer	30	+0%	30/15 Summer				36.562	0.103
192.000	OB67	15 Summer	30	+0%	30/15 Summer				36.518	0.179
185.007	BRANCH	15 Summer	30	+0%					36.295	0.000
193.000	OB68	15 Summer	30	+0%					36.621	-0.095
185.008	BRANCH	15 Summer	30	+0%					36.151	0.000
194.000	OB69	15 Summer	30	+0%	30/15 Summer	100/15 Summer			36.737	0.259
195.000	OB70	15 Summer	30	+0%	30/15 Summer	100/15 Summer			36.736	0.386
194.001	S504	15 Summer	30	+0%	30/15 Summer				36.595	0.415
196.000	OB71	15 Summer	30	+0%	30/15 Summer	100/15 Summer			36.582	0.254
194.002	S505	15 Summer	30	+0%	30/15 Summer				36.482	0.437
197.000	OB72	15 Summer	30	+0%	100/15 Summer				36.352	-0.113
198.000	OB73	15 Summer	30	+0%	30/15 Summer	100/15 Summer			36.566	0.171
194.003	S506	15 Summer	30	+0%	30/15 Summer				36.339	0.402
199.000	OB75	15 Summer	30	+0%	30/15 Summer	100/15 Summer			36.720	0.223
200.000	OB74	15 Summer	30	+0%	30/15 Summer				36.684	0.023
200.001	S507	15 Summer	30	+0%	30/15 Summer				36.666	0.259
199.001	S508	15 Summer	30	+0%	30/15 Summer				36.625	0.587
201.000	OB76	15 Summer	30	+0%	100/15 Summer				36.478	-0.090
194.004	S509	15 Summer	30	+0%	30/15 Summer				36.205	0.427
194.005	S510	15 Summer	30	+0%	30/15 Summer				36.052	0.355
202.000	OB77	15 Summer	30	+0%	100/15 Summer				36.660	-0.089

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

PN	US/MH Name	Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Volume (m³)	Flow / Overflow Cap. (l/s)				
161.014	S309	0.000	0.83		360.2	OK	
177.000	OB46	0.000	0.15		11.9	OK	
161.015	S310	0.000	1.00		351.5	OK	
178.000	OB47	0.000	0.20		22.8	OK	
161.016	BRANCH	0.000	0.76		356.4	OK*	
179.000	OB48	0.000	0.16		11.9	OK	
180.000	OB49	0.000	0.66		51.4	OK	
161.017	S311	0.000	0.86		368.8	OK	
181.000	OB50	0.000	0.82		21.4	OK	
181.001	S312	0.000	0.97		21.3	OK	
182.000	OB51	0.000	0.31		15.7	OK	
181.002	S313	0.000	0.58		36.8	OK	
183.000	OB52	0.000	0.36		24.9	OK	
181.003	BRANCH	0.000	0.89		59.6	OK*	
181.004	S314	0.000	1.14		59.7	SURCHARGED	
184.000	OB53	0.000	0.18		15.7	OK	
161.018	S315	0.000	1.07		385.8	OK	
161.019	INT02 (SUDS)	0.000	1.07		385.9	SURCHARGED	
161.020	S316	0.000	1.41		361.9	OK	
161.021	ATT INLET 02	0.000	0.54		327.3	OK*	
2.020	ATT TANK 01	0.000	1.64		1349.2	SURCHARGED	
2.021	CONNECTION	0.000	1.05		1331.9	OK	
185.000	OB60	0.000	0.47		67.6	OK	4
186.000	OB61	0.000	0.49		60.5	SURCHARGED	5
185.001	S500	0.000	0.87		114.6	SURCHARGED	
185.002	S501	0.000	0.72		97.8	SURCHARGED	
187.000	OB62	0.000	0.33		52.4	OK	5
185.003	BRANCH	0.000	0.81		141.1	SURCHARGED*	
188.000	OB63	0.000	0.25		9.9	OK	
189.000	OB64	0.000	0.81		27.1	SURCHARGED	5
185.004	S502	0.000	1.26		173.6	SURCHARGED	
190.000	OB65	0.000	0.54		15.5	SURCHARGED	3
185.005	BRANCH	0.000	1.74		186.8	SURCHARGED*	
191.000	OB66	0.000	0.14		3.1	OK	
185.006	S503	0.000	0.94		190.6	SURCHARGED	
192.000	OB67	0.000	1.57		47.0	SURCHARGED	
185.007	BRANCH	0.000	1.06		227.4	SURCHARGED*	
193.000	OB68	0.000	0.29		13.6	OK	
185.008	BRANCH	0.000	1.40		237.3	SURCHARGED*	
194.000	OB69	0.000	0.80		20.4	SURCHARGED	5
195.000	OB70	0.000	0.59		61.3	SURCHARGED	5
194.001	S504	0.000	0.91		73.6	SURCHARGED	
196.000	OB71	0.000	0.70		21.3	SURCHARGED	5
194.002	S505	0.000	1.16		89.9	SURCHARGED	
197.000	OB72	0.000	0.13		6.1	OK	
198.000	OB73	0.000	0.62		104.6	SURCHARGED	5
194.003	S506	0.000	0.85		189.6	SURCHARGED	
199.000	OB75	0.000	0.56		24.0	SURCHARGED	5
200.000	OB74	0.000	0.34		10.2	SURCHARGED	
200.001	S507	0.000	0.45		8.6	SURCHARGED	
199.001	S508	0.000	1.31		24.5	SURCHARGED	
201.000	OB76	0.000	0.34		18.7	OK	
194.004	S509	0.000	1.40		218.0	SURCHARGED	
194.005	S510	0.000	1.43		210.5	SURCHARGED	

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

PN	US/MH Name	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
202.000	OB77	0.000	0.35		23.8	OK	

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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
194.006	S511	15 Summer	30	+0%	30/15 Summer				35.761	0.206
203.000	OB78	15 Summer	30	+0%					36.654	-0.095
194.007	S512	15 Summer	30	+0%	30/15 Summer				35.407	0.059
185.009	S513	15 Summer	30	+0%	30/15 Summer				35.273	0.059
204.000	OB79	15 Summer	30	+0%	30/15 Summer	100/15 Summer			37.443	0.125
204.001	S514	15 Summer	30	+0%	30/15 Summer				37.261	0.261
205.000	OB80	15 Summer	30	+0%	30/15 Summer	100/15 Summer			37.177	0.258
204.002	BRANCH	15 Summer	30	+0%					36.869	0.000
185.010	S515	15 Summer	30	+0%	30/15 Summer				35.225	0.063
206.000	OB83	15 Summer	30	+0%	30/15 Summer	100/15 Summer			37.099	0.099
207.000	OB84	15 Summer	30	+0%	100/15 Summer				37.047	-0.063
208.000	OB81	15 Summer	30	+0%	30/15 Summer	100/15 Summer			37.565	0.268
209.000	OB82	15 Summer	30	+0%	100/15 Summer				37.196	-0.066
208.001	S516	15 Summer	30	+0%	30/15 Summer				37.128	0.118
210.000	GULLY	15 Summer	30	+0%	100/15 Summer				37.335	-0.150
208.002	BRANCH	15 Summer	30	+0%					36.836	0.000
206.001	S517	15 Summer	30	+0%	30/15 Summer				36.804	0.080
211.000	OB90A	15 Summer	30	+0%	100/15 Summer				36.821	-0.129
212.000	OB90	15 Summer	30	+0%	100/15 Summer				36.821	-0.129
213.000	OB85	15 Summer	30	+0%	100/15 Summer				36.863	-0.075
214.000	OB86	15 Summer	30	+0%	30/15 Summer	100/15 Summer			36.806	0.128
213.001	S518	15 Summer	30	+0%	30/15 Summer				36.635	0.230
215.000	OB87	15 Summer	30	+0%	100/15 Summer	100/15 Summer			36.786	-0.084
213.002	BRANCH	15 Summer	30	+0%					36.260	0.000
216.000	OB88	15 Summer	30	+0%	100/15 Summer				36.918	-0.079
217.000	OB89	15 Summer	30	+0%	100/15 Summer				36.939	-0.097
213.003	S519	15 Summer	30	+0%	30/15 Summer				36.123	0.031
206.002	S520	15 Summer	30	+0%	100/15 Summer				35.913	-0.109
218.000	OB92	15 Summer	30	+0%					36.912	-0.111
219.000	OB91	15 Summer	30	+0%	100/15 Summer				36.417	-0.091
220.000	OB93	15 Summer	30	+0%	100/15 Summer				36.270	-0.120
206.003	S521	15 Summer	30	+0%	100/15 Summer				35.619	-0.054
221.000	OB94	15 Summer	30	+0%	100/15 Summer				36.339	-0.114
206.004	BRANCH	15 Summer	30	+0%					35.264	0.000
222.000	OB95	15 Summer	30	+0%					36.636	-0.114
185.011	S522	15 Summer	30	+0%	30/15 Summer				35.178	0.063
185.012	INT03 (SUDES)	15 Summer	30	+0%	30/15 Summer				34.882	0.113
185.013	S523	15 Summer	30	+0%	30/15 Summer				34.776	0.034
185.014	ATT INLET 04	15 Summer	30	+0%					34.164	-0.560
2.022	ATT TANK 02	360 Winter	30	+0%	30/60 Summer				33.363	0.538
2.023	S524	360 Winter	30	+0%	1/360 Summer				33.462	0.674
2.024	S524 (SUDES)	360 Winter	30	+0%	1/240 Winter				33.501	0.781
2.025	SWPS01	360 Winter	30	+0%	1/120 Summer				33.497	1.012
2.026	458	360 Summer	30	+0%					36.300	0.000

PN	US/MH Name	Flooded Volume (m³)	Flow / Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
194.006	S511	0.000	1.28		219.3	SURCHARGED	
203.000	OB78	0.000	0.29		21.5	OK	
194.007	S512	0.000	1.02		233.4	SURCHARGED	
185.009	S513	0.000	0.95		452.9	SURCHARGED	
204.000	OB79	0.000	0.65		88.7	SURCHARGED	3

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

PN	US/MH Name	Flooded		Half Drain Pipe		Status	Level Exceeded
		Volume (m ³)	Flow / Overflow Cap. (l/s)	Time (mins)	Pipe Flow (l/s)		
204.001	S514	0.000	1.17		86.9	SURCHARGED	
205.000	OB80	0.000	1.45		45.6	SURCHARGED	1
204.002	BRANCH	0.000	2.07		130.4	SURCHARGED*	
185.010	S515	0.000	0.98		562.4	SURCHARGED	
206.000	OB83	0.000	1.04		20.6	SURCHARGED	3
207.000	OB84	0.000	0.63		23.8	OK	
208.000	OB81	0.000	1.22		26.1	SURCHARGED	3
209.000	OB82	0.000	0.56		17.2	OK	
208.001	S516	0.000	1.11		41.1	SURCHARGED	
210.000	GULLY	0.000	0.00		0.0	OK	
208.002	BRANCH	0.000	1.00		42.5	SURCHARGED*	
206.001	S517	0.000	1.44		81.4	SURCHARGED	
211.000	OB90A	0.000	0.05		2.9	OK	
212.000	OB90	0.000	0.05		2.9	OK	
213.000	OB85	0.000	0.50		20.8	OK	
214.000	OB86	0.000	0.82		18.4	SURCHARGED	4
213.001	S518	0.000	1.10		35.7	SURCHARGED	
215.000	OB87	0.000	0.40		17.7	OK	
213.002	BRANCH	0.000	1.39		50.7	SURCHARGED*	
216.000	OB88	0.000	0.46		16.7	OK	
217.000	OB89	0.000	0.27		16.4	OK	
213.003	S519	0.000	1.24		80.9	SURCHARGED	
206.002	S520	0.000	0.85		167.1	OK	
218.000	OB92	0.000	0.16		7.2	OK	
219.000	OB91	0.000	0.32		18.4	OK	
220.000	OB93	0.000	0.44		52.4	OK	
206.003	S521	0.000	0.67		229.6	OK	
221.000	OB94	0.000	0.48		72.4	OK	
206.004	BRANCH	0.000	1.36		287.7	SURCHARGED*	
222.000	OB95	0.000	0.13		10.6	OK	
185.011	S522	0.000	2.42		848.8	SURCHARGED	
185.012	INT03 (SUDS)	0.000	2.23		848.8	SURCHARGED	
185.013	S523	0.000	2.31		846.2	SURCHARGED	
185.014	ATT INLET 04	0.000	0.30		840.4	OK*	
2.022	ATT TANK 02	0.000	2.52		299.2	SURCHARGED	
2.023	S524	0.000	1.23		244.5	SURCHARGED	
2.024	S524 (SUDS)	0.000	1.83		213.8	SURCHARGED	
2.025	SWPS01	0.000	4.17		138.3	SURCHARGED	
2.026	458	0.000	1.01		138.2	OK	

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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 Offline Controls 0 Number of Time/Area Diagrams 0
 Number of Online Controls 1 Number of Storage Structures 2 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 18.300 Cv (Summer) 1.000
 Region England and Wales Ratio R 0.350 Cv (Winter) 1.000

Margin for Flood Risk Warning (mm) 300.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status OFF
 DVD Status ON
 Inertia Status ON

Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 240, 360
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 45

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)
2.000	OB1	15 Summer	100	+45%	100/15 Summer				38.637	0.822	0.000
3.000	OB2	30 Summer	100	+45%	30/15 Summer	100/15 Summer			38.311	0.843	0.953
2.001	S100	30 Summer	100	+45%	100/15 Summer	100/15 Summer			38.200	0.948	0.063
4.000	OB3	30 Summer	100	+45%	100/15 Summer	100/15 Summer			37.655	0.905	45.141
5.000	OB4	30 Summer	100	+45%	100/15 Summer	100/15 Summer			38.203	0.843	0.000
2.002	S101	30 Summer	100	+45%	100/15 Summer	100/15 Summer			38.056	1.568	2.368
6.000	OB5	30 Summer	100	+45%	100/15 Summer	100/30 Summer			38.224	0.789	3.844
2.003	S102	30 Summer	100	+45%	30/15 Summer				38.123	2.006	0.000
7.000	OB6	30 Summer	100	+45%	30/15 Summer	100/15 Summer			37.663	0.953	53.240
8.000	OB7	30 Summer	100	+45%	100/15 Summer	100/15 Summer			38.227	0.907	6.921
2.004	S103	30 Summer	100	+45%	30/15 Summer				38.006	2.497	0.000
2.005	S104	30 Summer	100	+45%	30/15 Summer				37.947	2.585	0.000
9.000	OB8	30 Summer	100	+45%	100/15 Summer				37.917	0.359	0.000
2.006	S105	30 Summer	100	+45%	30/15 Summer				37.827	2.556	0.000
10.000	OB9	30 Summer	100	+45%	30/15 Summer	100/15 Summer			38.565	0.852	9.845
10.001	S106	30 Summer	100	+45%	100/15 Summer				38.568	0.955	0.000
11.000	OB10	30 Summer	100	+45%	100/15 Summer	100/30 Summer			38.555	0.767	0.258
10.002	S107	30 Winter	100	+45%	30/15 Summer				38.534	1.854	0.000
12.000	OB11	30 Summer	100	+45%	100/15 Summer				38.224	0.436	0.000
10.003	S108	30 Summer	100	+45%	100/15 Summer				38.211	2.231	0.000
13.000	OB12	30 Summer	100	+45%	100/15 Winter				38.007	0.294	0.000
10.004	S109	30 Summer	100	+45%	30/15 Summer				37.944	2.524	0.000
2.007	S110	30 Summer	100	+45%	30/15 Summer				37.766	2.544	0.000
14.000	OB13	30 Summer	100	+45%	100/15 Summer	100/15 Summer			38.077	0.862	2.102
15.000	OB14	30 Summer	100	+45%	100/15 Summer	100/15 Summer			37.616	0.941	6.403
14.001	S111	30 Summer	100	+45%	30/15 Summer				37.875	2.250	0.000
16.000	OB15	30 Summer	100	+45%	100/30 Summer				37.755	0.076	0.000
2.008	S112	30 Summer	100	+45%	30/15 Summer				37.637	2.571	0.000

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

PN	US/MH Name	Flow / Cap.	Overflow (1/s)	Half Drain Pipe		Status	Level Exceeded
				Time (mins)	Flow (1/s)		
2.000	OB1	1.01			31.2	FLOOD RISK	
3.000	OB2	1.56			35.2	FLOOD	2
2.001	S100	0.62			57.9	FLOOD	2
4.000	OB3	1.81			98.2	FLOOD	7
5.000	OB4	0.50			65.2	FLOOD RISK	
2.002	S101	0.94			133.9	FLOOD	3
6.000	OB5	0.53			153.4	FLOOD	3
2.003	S102	0.90			243.9	FLOOD RISK	
7.000	OB6	1.02			121.9	FLOOD	7
8.000	OB7	0.82			155.3	FLOOD	5
2.004	S103	2.05			454.6	FLOOD RISK	
2.005	S104	1.91			402.5	SURCHARGED	
9.000	OB8	0.78			38.8	SURCHARGED	
2.006	S105	1.49			394.5	SURCHARGED	
10.000	OB9	2.36			46.7	FLOOD	5
10.001	S106	0.73			41.6	FLOOD RISK	
11.000	OB10	0.40			58.7	FLOOD	1
10.002	S107	1.35			68.0	FLOOD RISK	
12.000	OB11	0.35			67.1	SURCHARGED	
10.003	S108	1.11			105.1	SURCHARGED	
13.000	OB12	0.49			46.9	SURCHARGED	
10.004	S109	0.83			129.7	SURCHARGED	
2.007	S110	1.14			475.5	SURCHARGED	
14.000	OB13	0.68			121.5	FLOOD	4
15.000	OB14	0.85			31.6	FLOOD	5
14.001	S111	1.65			129.5	SURCHARGED	
16.000	OB15	0.71			43.3	SURCHARGED	
2.008	S112	1.10			571.3	SURCHARGED	

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PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)
17.000	OB16	15 Summer	100	+45%					37.622	-0.057	0.000
2.009	S113	30 Summer	100	+45%	30/15 Summer				37.441	2.615	0.000
18.000	OB17	15 Summer	100	+45%					37.617	-0.062	0.000
2.010	S114	30 Summer	100	+45%	30/15 Summer				37.223	2.638	0.000
19.000	OB18	30 Summer	100	+45%	30/15 Summer	100/15 Summer			38.698	0.853	11.326
19.001	S115	30 Summer	100	+45%	30/15 Summer				38.678	1.178	0.000
20.000	OB19	15 Summer	100	+45%	100/15 Summer				38.687	0.842	0.000
19.002	S116	30 Summer	100	+45%	30/15 Summer				38.360	1.793	0.000
19.003	S117	30 Summer	100	+45%	30/15 Summer	100/15 Summer			37.748	1.661	20.839
21.000	OB20	30 Summer	100	+45%	100/15 Summer				37.975	0.841	0.000
22.000	OB21	30 Summer	100	+45%	100/15 Summer				38.069	0.784	0.000
19.004	S118	30 Summer	100	+45%	30/15 Summer				37.832	1.936	0.000
23.000	OB22	30 Summer	100	+45%	100/15 Summer	100/15 Summer			37.635	0.885	24.997
24.000	OB23	30 Summer	100	+45%	100/15 Summer	100/15 Summer			38.222	0.902	1.868
19.005	S119	30 Summer	100	+45%	30/15 Summer				37.828	1.990	0.000
25.000	OB24	30 Summer	100	+45%	100/15 Summer				38.047	0.687	0.000
19.006	S120	30 Summer	100	+45%	30/15 Summer				37.818	2.240	0.000
26.000	OB25	30 Summer	100	+45%	100/15 Summer				37.956	0.596	0.000
27.000	OB26	30 Summer	100	+45%	100/15 Summer	100/15 Summer			37.632	0.882	22.291
19.007	S121	30 Summer	100	+45%	30/15 Summer				37.681	2.407	0.000
19.008	S122	30 Summer	100	+45%	30/15 Summer				37.575	2.495	0.000
19.009	S123	30 Summer	100	+45%	30/15 Summer				37.384	2.576	0.000
28.000	OB27	15 Summer	100	+45%					37.740	-0.023	0.000
19.010	S124	30 Summer	100	+45%	30/15 Summer				37.236	2.651	0.000
29.000	OB28	30 Summer	100	+45%	100/15 Summer				37.098	0.512	0.000
2.011	S125	30 Summer	100	+45%	30/15 Summer				37.047	2.569	0.000
30.000	OB29	15 Summer	100	+45%	100/15 Summer				37.548	0.873	0.000
31.000	OB30	15 Summer	100	+45%	100/15 Summer				38.058	0.843	0.000
30.001	S126	15 Summer	100	+45%	30/15 Summer				37.234	0.899	0.000
2.012	S127	30 Summer	100	+45%	30/15 Summer				36.904	2.442	0.000
2.013	INT01	30 Summer	100	+45%	30/15 Summer				36.691	2.401	0.000
32.000	SDP01	30 Summer	100	+45%	1/15 Summer	100/15 Summer			39.089	1.214	88.650
33.000	RWP01	15 Summer	100	+45%	30/15 Summer				38.635	0.835	0.000
33.001	S200	15 Summer	100	+45%	30/15 Summer				38.628	1.205	0.000
34.000	RWP03	15 Summer	100	+45%	30/15 Summer				38.877	1.077	0.000
34.001	S201	30 Winter	100	+45%	30/15 Summer	100/15 Summer			38.699	1.391	4.124
35.000	RWP04	15 Summer	100	+45%	30/15 Summer				38.948	1.148	0.000
34.002	BRANCH	15 Summer	100	+45%					37.115	0.000	0.000
36.000	RWP05	30 Summer	100	+45%	30/15 Summer				38.881	1.081	0.000
34.003	BRANCH	15 Summer	100	+45%					36.922	0.000	0.000
37.000	RWP02	60 Summer	100	+45%	30/15 Summer				38.597	0.797	0.000
32.001	S202 (V)	60 Summer	100	+45%	30/15 Summer				38.596	1.735	0.000
32.002	S203	60 Summer	100	+45%	30/15 Summer	100/15 Summer			38.476	1.654	42.944
38.000	RWP06	60 Summer	100	+45%	30/15 Summer				38.370	0.570	0.000
32.003	BRANCH	15 Summer	100	+45%					36.677	0.000	0.000
39.000	SWP07	60 Summer	100	+45%	30/15 Summer				38.321	0.521	0.000
32.004	BRANCH	15 Summer	100	+45%					36.644	0.000	0.000
40.000	RWP08	60 Summer	100	+45%	30/15 Summer				38.213	0.413	0.000
32.005	S204	60 Summer	100	+45%	30/15 Summer	100/15 Summer			38.207	1.616	197.361
41.000	SDP02	15 Summer	100	+45%	1/15 Summer	100/15 Summer			39.080	1.205	80.097
42.000	RWP09	15 Summer	100	+45%	30/15 Summer				38.704	0.904	0.000
42.001	S205	15 Summer	100	+45%	30/15 Summer	100/15 Summer			38.700	1.328	0.014
43.000	RWP10	15 Summer	100	+45%	30/15 Summer				38.675	0.875	0.000
44.000	RWP11	15 Winter	100	+45%	30/15 Summer				38.737	1.526	0.000
45.000	RWP12	15 Winter	100	+45%	30/15 Summer				38.730	0.930	0.000

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

PN	US/MH Name	Flow / Overflow Cap.	Half Drain		Pipe	Status	Level Exceeded
			Flow (1/s)	Time (mins)	Flow (1/s)		
17.000	OB16	0.70			47.8	OK	
2.009	S113	1.09			568.0	SURCHARGED	
18.000	OB17	0.64			48.5	OK	
2.010	S114	1.25			575.0	SURCHARGED	
19.000	OB18	0.91			33.6	FLOOD	7
19.001	S115	1.33			26.1	FLOOD RISK	
20.000	OB19	0.75			53.3	FLOOD RISK	
19.002	S116	1.12			50.2	SURCHARGED	
19.003	S117	2.07			83.2	FLOOD	7
21.000	OB20	0.64			41.7	FLOOD RISK	
22.000	OB21	0.55			30.6	FLOOD RISK	
19.004	S118	0.91			91.7	FLOOD RISK	
23.000	OB22	0.77			77.8	FLOOD	6
24.000	OB23	0.81			56.2	FLOOD	5
19.005	S119	1.48			175.1	FLOOD RISK	
25.000	OB24	0.71			132.8	FLOOD RISK	
19.006	S120	1.40			268.1	SURCHARGED	
26.000	OB25	0.83			169.6	FLOOD RISK	
27.000	OB26	1.09			145.1	FLOOD	6
19.007	S121	1.45			513.2	SURCHARGED	
19.008	S122	0.92			472.6	SURCHARGED	
19.009	S123	0.90			424.2	SURCHARGED	
28.000	OB27	0.99			62.3	OK	
19.010	S124	1.72			432.5	SURCHARGED	
29.000	OB28	0.76			33.8	SURCHARGED	
2.011	S125	3.33			996.0	SURCHARGED	
30.000	OB29	0.93			18.1	FLOOD RISK	
31.000	OB30	0.95			124.9	FLOOD RISK	
30.001	S126	1.85			143.3	SURCHARGED	
2.012	S127	1.85			1085.5	SURCHARGED	
2.013	INT01	1.43			1076.5	SURCHARGED	
32.000	SDP01	2.63			398.7	FLOOD	7
33.000	RWP01	0.11			4.1	FLOOD RISK	
33.001	S200	0.56			18.3	FLOOD RISK	
34.000	RWP03	0.50			17.8	FLOOD RISK	
34.001	S201	1.00			17.9	FLOOD	7
35.000	RWP04	0.41			17.3	FLOOD RISK	
34.002	BRANCH	1.17			24.1	SURCHARGED*	
36.000	RWP05	0.33			15.8	FLOOD RISK	
34.003	BRANCH	2.08			32.2	SURCHARGED*	
37.000	RWP02	0.04			2.7	FLOOD RISK	
32.001	S202 (V)	1.79			303.3	FLOOD RISK	
32.002	S203	1.26			269.1	FLOOD	7
38.000	RWP06	0.12			7.6	SURCHARGED	
32.003	BRANCH	1.20			286.6	SURCHARGED*	
39.000	SWP07	0.11			6.9	SURCHARGED	
32.004	BRANCH	1.19			295.9	SURCHARGED*	
40.000	RWP08	0.12			6.8	SURCHARGED	
32.005	S204	1.39			473.5	FLOOD	7
41.000	SDP02	2.95			447.4	FLOOD	6
42.000	RWP09	0.11			4.6	FLOOD RISK	
42.001	S205	0.32			11.5	FLOOD	1
43.000	RWP10	0.09			4.4	SURCHARGED	
44.000	RWP11	0.30			8.6	FLOOD RISK	

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

PN	US/MH Name	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
45.000	RWP12	0.15		8.7	FLOOD RISK	

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PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m ³)
44.001	BRANCH	15 Summer	100	+45%					36.917	0.000	0.000
41.001	S206(V)	15 Summer	100	+45%	30/15 Summer				38.672	1.961	0.000
32.006	S207	15 Summer	100	+45%	30/15 Summer	100/15 Summer			38.445	2.125	12.074
46.000	RWP13	15 Winter	100	+45%	30/15 Summer				38.459	0.809	0.000
32.007	S208	15 Winter	100	+45%	30/15 Summer				38.443	2.191	0.000
32.008	S209	15 Winter	100	+45%	30/15 Summer				38.410	2.200	0.000
47.000	RWP14	15 Winter	100	+45%	100/15 Summer				38.386	0.386	0.000
32.009	BRANCH	15 Summer	100	+45%					36.202	0.000	0.000
48.000	RWP15	15 Summer	100	+45%	100/15 Summer				38.440	0.440	0.000
48.001	S210	15 Summer	100	+45%	100/15 Summer				38.411	0.811	0.000
49.000	RWP16	15 Summer	100	+45%	100/15 Summer				38.407	0.407	0.000
48.002	BRANCH	15 Summer	100	+45%					37.416	0.000	0.000
50.000	RWP17	30 Winter	100	+45%	100/15 Summer				38.522	0.572	0.000
51.000	RWP18	30 Winter	100	+45%	100/15 Summer				38.519	0.569	0.000
50.001	S211	30 Winter	100	+45%	100/15 Summer				38.503	1.003	0.000
52.000	RWP19	30 Winter	100	+45%	100/15 Summer				38.461	0.876	0.000
50.002	BRANCH	15 Summer	100	+45%					37.194	0.000	0.000
53.000	RWP20	30 Winter	100	+45%	100/15 Summer				38.373	0.373	0.000
50.003	BRANCH	15 Summer	100	+45%					36.794	0.000	0.000
50.004	S212	60 Summer	100	+45%	30/15 Summer	100/30 Summer			38.301	1.656	0.689
32.010	S213	15 Winter	100	+45%	30/15 Summer				38.340	2.208	0.000
54.000	RWP21	15 Winter	100	+45%	100/15 Summer				38.336	0.336	0.000
32.011	BRANCH	15 Summer	100	+45%					36.113	0.000	0.000
55.000	RWP22	15 Summer	100	+45%	100/15 Summer				38.252	0.252	0.000
32.012	BRANCH	15 Summer	100	+45%					36.075	0.000	0.000
56.000	RWP23	30 Winter	100	+45%	100/15 Summer				38.206	0.206	0.000
32.013	BRANCH	15 Summer	100	+45%					36.038	0.000	0.000
57.000	RWP24	30 Winter	100	+45%	100/15 Summer				38.185	0.185	0.000
32.014	BRANCH	15 Summer	100	+45%					36.001	0.000	0.000
58.000	RWP25	30 Winter	100	+45%	100/30 Summer				38.159	0.159	0.000
32.015	BRANCH	15 Summer	100	+45%					35.961	0.000	0.000
59.000	SDP12	30 Summer	100	+45%	30/15 Summer	100/15 Summer			39.074	1.349	73.847
60.000	SDP13	30 Summer	100	+45%	100/15 Summer				38.650	1.000	0.000
61.000	SDP14	30 Summer	100	+45%	30/15 Summer	100/15 Summer			39.085	1.360	84.664
62.000	RWP29	30 Summer	100	+45%	100/15 Summer				38.561	0.911	0.000
62.001	S214	30 Summer	100	+45%	30/30 Summer				38.558	1.308	0.000
63.000	RWP30	30 Summer	100	+45%	100/15 Summer				38.546	0.546	0.000
61.001	S215(V)	30 Summer	100	+45%	1/15 Summer				38.543	2.523	0.000
64.000	RWP27	30 Summer	100	+45%	100/15 Summer				38.417	0.917	0.000
64.001	S214a	30 Summer	100	+45%	100/15 Summer				38.414	1.164	0.000
65.000	RWP28	30 Winter	100	+45%	100/15 Summer				38.405	0.405	0.000
59.001	S216(V)	30 Winter	100	+45%	30/15 Summer				38.400	2.410	0.000
66.000	RWP26	30 Winter	100	+45%	100/30 Summer				38.132	0.132	0.000
32.016	S217	30 Winter	100	+45%	30/15 Summer				38.117	2.193	0.000
67.000	RWP31	60 Summer	100	+45%					37.968	-0.032	0.000
32.017	BRANCH	15 Summer	100	+45%					35.890	0.000	0.000
68.000	RWP32	15 Summer	100	+45%					38.039	-0.111	0.000
32.018	BRANCH	15 Summer	100	+45%					35.857	0.000	0.000
69.000	RWP33	15 Summer	100	+45%					38.039	-0.111	0.000
32.019	BRANCH	15 Summer	100	+45%					35.820	0.000	0.000
70.000	RWP34	15 Summer	100	+45%					38.037	-0.113	0.000
32.020	BRANCH	15 Summer	100	+45%					35.791	0.000	0.000
71.000	RWP36	15 Summer	100	+45%					37.864	-0.086	0.000
72.000	RWP35	15 Summer	100	+45%					37.868	-0.082	0.000
71.001	S218	30 Summer	100	+45%	100/15 Summer				37.705	0.205	0.000

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

PN	US/MH Name	Flow / Overflow Cap.	Half Drain		Pipe	Status	Level Exceeded
			Flow (1/s)	Time (mins)	Flow (1/s)		
44.001	BRANCH	0.44			12.5	SURCHARGED*	
41.001	S206 (V)	1.11			389.8	FLOOD RISK	
32.006	S207	1.36			636.9	FLOOD	2
46.000	RWP13	0.19			7.4	SURCHARGED	
32.007	S208	1.65			625.0	FLOOD RISK	
32.008	S209	2.27			625.0	SURCHARGED	
47.000	RWP14	0.10			8.0	SURCHARGED	
32.009	BRANCH	1.01			610.3	SURCHARGED*	
48.000	RWP15	0.30			9.5	SURCHARGED	
48.001	S210	0.35			9.3	SURCHARGED	
49.000	RWP16	0.20			9.5	SURCHARGED	
48.002	BRANCH	0.74			20.5	SURCHARGED*	
50.000	RWP17	0.24			7.7	SURCHARGED	
51.000	RWP18	0.21			7.7	SURCHARGED	
50.001	S211	0.54			13.7	SURCHARGED	
52.000	RWP19	0.12			4.7	SURCHARGED	
50.002	BRANCH	0.84			23.6	SURCHARGED*	
53.000	RWP20	0.07			5.1	SURCHARGED	
50.003	BRANCH	0.96			23.1	SURCHARGED*	
50.004	S212	0.98			17.5	FLOOD	3
32.010	S213	2.12			623.0	SURCHARGED	
54.000	RWP21	0.13			11.5	SURCHARGED	
32.011	BRANCH	1.17			622.8	SURCHARGED*	
55.000	RWP22	0.16			14.1	SURCHARGED	
32.012	BRANCH	1.17			621.0	SURCHARGED*	
56.000	RWP23	0.09			8.1	SURCHARGED	
32.013	BRANCH	1.16			618.0	SURCHARGED*	
57.000	RWP24	0.10			8.5	SURCHARGED	
32.014	BRANCH	1.13			618.4	SURCHARGED*	
58.000	RWP25	0.09			8.2	SURCHARGED	
32.015	BRANCH	1.16			620.3	SURCHARGED*	
59.000	SDP12	1.73			484.9	FLOOD	6
60.000	SDP13	0.61			109.2	SURCHARGED	
61.000	SDP14	1.61			451.7	FLOOD	6
62.000	RWP29	0.07			2.7	FLOOD RISK	
62.001	S214	0.44			5.2	FLOOD RISK	
63.000	RWP30	0.03			2.8	SURCHARGED	
61.001	S215 (V)	2.59			381.8	FLOOD RISK	
64.000	RWP27	0.09			2.9	SURCHARGED	
64.001	S214a	0.34			4.7	FLOOD RISK	
65.000	RWP28	0.03			2.2	SURCHARGED	
59.001	S216 (V)	1.73			804.8	FLOOD RISK	
66.000	RWP26	0.16			8.8	SURCHARGED	
32.016	S217	2.38			1121.8	SURCHARGED	
67.000	RWP31	0.08			7.7	OK	
32.017	BRANCH	1.42			1083.2	SURCHARGED*	
68.000	RWP32	0.15			14.0	OK	
32.018	BRANCH	1.33			1079.4	SURCHARGED*	
69.000	RWP33	0.15			14.3	OK	
32.019	BRANCH	1.41			1075.0	SURCHARGED*	
70.000	RWP34	0.13			12.8	OK	
32.020	BRANCH	1.25			1085.4	SURCHARGED*	
71.000	RWP36	0.37			13.6	OK	
72.000	RWP35	0.42			13.6	OK	

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

PN	US/MH Name	Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
71.001	S218	0.81			20.7	SURCHARGED	

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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
73.000	RWP37	15 Summer	100	+45%					37.889	-0.111
71.002	BRANCH	15 Summer	100	+45%					37.194	0.000
74.000	RWP38	15 Summer	100	+45%					37.885	-0.115
71.003	S219	60 Summer	100	+45%	100/15 Summer				37.511	0.684
75.000	RWP39	15 Summer	100	+45%					38.000	-0.150
32.021	S220	30 Summer	100	+45%	30/15 Summer				37.379	1.631
76.000	RWP40	15 Summer	100	+45%					38.039	-0.111
32.022	BRANCH	15 Summer	100	+45%					35.729	0.000
77.000	RWP41	15 Summer	100	+45%					38.039	-0.111
32.023	BRANCH	15 Summer	100	+45%					35.707	0.000
78.000	RWP42	15 Summer	100	+45%					38.053	-0.097
32.024	S221 (SUDES)	30 Summer	100	+45%	30/15 Summer				36.823	1.146
79.000	SDP03	15 Summer	100	+45%	1/15 Summer	100/15 Summer			39.085	1.210
80.000	RWP43	30 Summer	100	+45%	30/15 Summer				38.594	0.794
80.001	S222	30 Summer	100	+45%	30/15 Summer				38.589	1.166
81.000	RWP44	30 Summer	100	+45%	30/15 Summer				38.582	0.782
82.000	RWP45	15 Summer	100	+45%	30/15 Summer				38.831	1.031
82.001	S223	30 Summer	100	+45%	30/15 Summer	100/15 Summer			38.698	1.398
83.000	RWP46	15 Summer	100	+45%	30/15 Summer				38.969	1.169
82.002	BRANCH	15 Summer	100	+45%					37.120	0.000
84.000	RWP47	15 Summer	100	+45%	30/15 Summer				38.857	1.057
82.003	BRANCH	15 Summer	100	+45%					36.940	0.000
79.001	S224 (V)	30 Summer	100	+45%	1/15 Summer				38.580	1.696
79.002	S225	30 Winter	100	+45%	30/15 Summer	100/30 Summer			38.436	1.644
85.000	RWP48	60 Summer	100	+45%	30/15 Summer	100/15 Summer			38.253	0.653
79.003	BRANCH	15 Summer	100	+45%					36.748	0.000
86.000	RWP49	30 Summer	100	+45%	30/15 Summer				38.233	0.833
79.004	BRANCH	15 Summer	100	+45%					36.703	0.000
87.000	RWP50	30 Summer	100	+45%	30/15 Summer				38.106	0.706
79.005	BRANCH	15 Summer	100	+45%					36.658	0.000
88.000	RWP51	30 Winter	100	+45%	100/15 Summer				37.973	0.573
79.006	BRANCH	15 Summer	100	+45%					36.613	0.000
89.000	RWP52	30 Summer	100	+45%					37.835	-0.015
79.007	BRANCH	15 Summer	100	+45%					36.589	0.000
90.000	RWP53	30 Summer	100	+45%	100/30 Summer				37.710	0.005
79.008	BRANCH	15 Summer	100	+45%					36.554	0.000
91.000	RWP54	30 Summer	100	+45%	100/15 Summer				37.580	0.330
79.009	S226	30 Summer	100	+45%	30/15 Summer				37.572	1.105
92.000	SDP04	15 Summer	100	+45%	1/15 Summer	100/15 Summer			39.062	1.187
93.000	RWP55	30 Summer	100	+45%	100/15 Summer				38.115	0.315
93.001	S227	30 Summer	100	+45%	100/15 Summer				38.113	0.691
94.000	RWP56	30 Summer	100	+45%	100/15 Summer				38.115	0.315
95.000	RWP57	30 Summer	100	+45%	100/15 Summer				38.125	0.325
96.000	RWP58	30 Summer	100	+45%	30/15 Summer				38.128	0.917
95.001	BRANCH	15 Summer	100	+45%					36.917	0.000
92.001	S228 (V)	30 Summer	100	+45%	30/15 Summer				38.113	1.402
79.010	S229	30 Summer	100	+45%	30/15 Summer				37.195	1.108
79.011	S230 (SUDES)	30 Summer	100	+45%	30/15 Summer				36.917	0.963
32.025	S231	30 Summer	100	+45%	30/15 Summer				36.635	0.972
2.014	S232	30 Summer	100	+45%	30/15 Summer				36.508	2.279
2.015	S233	30 Summer	100	+45%	30/15 Summer				36.079	1.972
97.000	RWP59	15 Summer	100	+45%					37.495	-0.105
98.000	RWP60	15 Summer	100	+45%					37.514	-0.086
2.016	S234	30 Summer	100	+45%	30/15 Summer				35.596	1.616
2.017	S235	120 Summer	100	+45%	30/15 Summer				35.083	1.214

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

PN	US/MH Name	Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Volume (m³)	Flow / Overflow Cap. (l/s)				
73.000	RWP37	0.000	0.15		8.4	OK	
71.002	BRANCH	0.000	0.95		26.8	SURCHARGED*	
74.000	RWP38	0.000	0.12		8.4	OK	
71.003	S219	0.000	0.77		20.2	SURCHARGED	
75.000	RWP39	0.000	0.00		0.0	OK	
32.021	S220	0.000	2.87		1155.6	SURCHARGED	
76.000	RWP40	0.000	0.15		14.7	OK	
32.022	BRANCH	0.000	1.46		1113.8	SURCHARGED*	
77.000	RWP41	0.000	0.15		14.7	OK	
32.023	BRANCH	0.000	1.46		1114.2	SURCHARGED*	
78.000	RWP42	0.000	0.26		14.6	OK	
32.024	S221 (SUDES)	0.000	2.37		1157.3	SURCHARGED	
79.000	SDP03	84.864	2.70		410.0	FLOOD	6
80.000	RWP43	0.000	0.08		3.2	FLOOD RISK	
80.001	S222	0.000	0.20		6.4	FLOOD RISK	
81.000	RWP44	0.000	0.06		3.3	FLOOD RISK	
82.000	RWP45	0.000	0.45		16.1	FLOOD RISK	
82.001	S223	3.182	1.02		17.6	FLOOD	6
83.000	RWP46	0.000	0.44		18.6	FLOOD RISK	
82.002	BRANCH	0.000	1.23		24.3	SURCHARGED*	
84.000	RWP47	0.000	0.35		16.5	FLOOD RISK	
82.003	BRANCH	0.000	2.08		30.8	SURCHARGED*	
79.001	S224 (V)	0.000	1.43		356.4	FLOOD RISK	
79.002	S225	3.515	1.93		334.2	FLOOD	3
85.000	RWP48	3.133	0.59		25.7	FLOOD	6
79.003	BRANCH	0.000	1.38		342.7	SURCHARGED*	
86.000	RWP49	0.000	0.30		11.8	FLOOD RISK	
79.004	BRANCH	0.000	1.38		343.8	SURCHARGED*	
87.000	RWP50	0.000	0.29		11.8	FLOOD RISK	
79.005	BRANCH	0.000	1.42		353.3	SURCHARGED*	
88.000	RWP51	0.000	0.17		7.0	FLOOD RISK	
79.006	BRANCH	0.000	1.44		358.0	SURCHARGED*	
89.000	RWP52	0.000	0.16		10.3	OK	
79.007	BRANCH	0.000	1.46		363.3	SURCHARGED*	
90.000	RWP53	0.000	0.16		9.6	SURCHARGED	
79.008	BRANCH	0.000	1.47		366.0	SURCHARGED*	
91.000	RWP54	0.000	0.21		9.6	SURCHARGED	
79.009	S226	0.000	1.23		352.0	SURCHARGED	
92.000	SDP04	62.081	2.99		453.0	FLOOD	5
93.000	RWP55	0.000	0.10		3.7	SURCHARGED	
93.001	S227	0.000	0.32		11.6	SURCHARGED	
94.000	RWP56	0.000	0.08		3.7	SURCHARGED	
95.000	RWP57	0.000	0.16		9.4	SURCHARGED	
96.000	RWP58	0.000	0.32		9.3	SURCHARGED	
95.001	BRANCH	0.000	0.69		19.6	SURCHARGED*	
92.001	S228 (V)	0.000	1.46		452.3	SURCHARGED	
79.010	S229	0.000	1.70		791.7	SURCHARGED	
79.011	S230 (SUDES)	0.000	1.14		780.5	SURCHARGED	
32.025	S231	0.000	2.99		1927.4	SURCHARGED	
2.014	S232	0.000	1.78		2755.3	SURCHARGED	
2.015	S233	0.000	1.98		2693.2	SURCHARGED	
97.000	RWP59	0.000	0.20		12.1	OK	
98.000	RWP60	0.000	0.38		22.9	OK	
2.016	S234	0.000	2.22		2684.9	SURCHARGED	

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

PN	US/MH Name	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
2.017	S235	0.000	2.24		2437.9	SURCHARGED	



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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
99.000	RWP61	15 Summer	100	+45%	100/15 Summer				38.252	0.352
99.001	S236	15 Summer	100	+45%	100/15 Summer				38.235	0.490
100.000	RWP62	15 Summer	100	+45%	100/15 Summer				38.238	0.338
99.002	BRANCH	15 Summer	100	+45%					37.588	0.000
99.003	S237	15 Summer	100	+45%	30/15 Summer				37.768	0.415
101.000	RWP63	15 Summer	100	+45%					37.692	-0.108
99.004	BRANCH	15 Summer	100	+45%					37.221	0.000
102.000	RWP64	15 Summer	100	+45%					37.838	-0.112
99.005	S238	15 Summer	100	+45%					35.554	-0.103
103.000	RWP65	15 Summer	100	+45%					37.112	-0.094
99.006	BRANCH	15 Summer	100	+45%					35.145	-0.012
104.000	RWP66	15 Summer	100	+45%					37.088	-0.108
99.007	BRANCH	15 Summer	100	+45%					34.897	0.000
105.000	RWP67	15 Summer	100	+45%					36.839	-0.117
2.018	S239	120 Summer	100	+45%	30/15 Summer				34.770	0.982
2.019	ATT INLET 01	15 Summer	100	+45%					33.775	0.000
106.000	SDP05	30 Summer	100	+45%	1/15 Summer	100/15 Summer			39.090	1.215
106.001	S400 (V)	60 Summer	100	+45%	30/15 Summer	100/15 Summer			38.750	1.400
107.000	RWP60	60 Summer	100	+45%	30/15 Summer				38.694	0.894
106.002	S401	60 Summer	100	+45%	30/15 Summer	100/15 Summer			38.692	1.683
108.000	RWP61	30 Summer	100	+45%	30/15 Summer				38.680	0.880
106.003	BRANCH	15 Summer	100	+45%					36.972	0.000
109.000	RWP62	30 Summer	100	+45%	30/15 Summer				38.658	0.858
106.004	BRANCH	15 Summer	100	+45%					36.880	0.000
110.000	RWP63	30 Summer	100	+45%	100/15 Summer				38.661	0.861
106.005	S402	30 Summer	100	+45%	30/15 Summer	100/30 Summer			38.649	1.828
111.000	RWP64	60 Summer	100	+45%	100/15 Summer				38.598	0.798
106.006	BRANCH	15 Summer	100	+45%					36.790	0.000
112.000	RWP65	30 Summer	100	+45%	100/15 Summer				38.570	0.770
106.007	BRANCH	15 Summer	100	+45%					36.750	0.000
113.000	SDP06	30 Summer	100	+45%	1/15 Summer	100/15 Summer			39.062	1.187
106.008	S403	30 Summer	100	+45%	30/15 Summer	100/30 Summer			38.569	1.863
114.000	RWP66	30 Summer	100	+45%	100/15 Summer				38.561	0.761
106.009	BRANCH	15 Summer	100	+45%					36.680	0.000
115.000	RWP67	30 Summer	100	+45%	100/15 Summer				38.531	0.731
106.010	BRANCH	15 Summer	100	+45%					36.645	0.000
116.000	RWP68	30 Winter	100	+45%	100/15 Summer				38.431	0.631
106.011	BRANCH	15 Summer	100	+45%					36.607	0.000
117.000	RWP69	60 Winter	100	+45%	100/15 Summer				38.358	0.558
106.012	S404	60 Winter	100	+45%	30/15 Summer				38.335	1.796
118.000	RWP70	60 Winter	100	+45%	100/15 Summer				38.282	0.282
106.013	BRANCH	15 Summer	100	+45%					36.513	0.000
106.014	S405	60 Summer	100	+45%	30/15 Summer	100/15 Summer			38.175	1.685
119.000	RWP71	15 Summer	100	+45%	100/15 Summer				38.890	0.790
119.001	S406	30 Summer	100	+45%	30/15 Summer	100/15 Summer			38.733	1.108
120.000	RWP72	15 Summer	100	+45%	100/15 Summer				38.979	0.879
119.002	BRANCH	15 Summer	100	+45%					37.305	0.000
121.000	RWP73	30 Summer	100	+45%	100/15 Summer				38.843	0.743
119.003	S407	30 Summer	100	+45%	30/15 Summer	100/30 Summer			38.730	1.785
106.015	S408	30 Summer	100	+45%	30/15 Summer	100/15 Winter			38.128	1.830
122.000	RWP74	30 Summer	100	+45%	30/15 Summer	100/30 Summer			38.700	0.950
122.001	S409	60 Summer	100	+45%	30/15 Summer	100/15 Summer			38.654	0.948
123.000	RWP75	30 Winter	100	+45%	100/15 Summer	100/30 Summer			38.700	0.850
122.002	BRANCH	15 Summer	100	+45%					37.636	0.000
124.000	RWP76	30 Summer	100	+45%	100/15 Summer				38.694	0.844

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

PN	US/MH Name	Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Volume (m³)	Flow / Overflow Cap. (l/s)				
99.000	RWP61	0.000	0.44		10.8	SURCHARGED	
99.001	S236	0.000	0.63		10.3	SURCHARGED	
100.000	RWP62	0.000	0.48		16.9	SURCHARGED	
99.002	BRANCH	0.000	1.37		24.4	SURCHARGED*	
99.003	S237	0.000	1.56		23.7	SURCHARGED	
101.000	RWP63	0.000	0.18		8.4	OK	
99.004	BRANCH	0.000	1.63		29.0	SURCHARGED*	
102.000	RWP64	0.000	0.14		8.4	OK	
99.005	S238	0.000	0.56		35.3	OK	
103.000	RWP65	0.000	0.30		26.5	OK	
99.006	BRANCH	0.000	0.87		58.6	OK*	
104.000	RWP66	0.000	0.17		16.3	OK	
99.007	BRANCH	0.000	1.09		73.0	SURCHARGED*	
105.000	RWP67	0.000	0.11		9.1	OK	
2.018	S239	0.000	2.68		2466.1	SURCHARGED	
2.019	ATT INLET 01	0.000	1.34		2640.6	SURCHARGED*	
106.000	SDP05	90.184	2.46		373.6	FLOOD	7
106.001	S400 (V)	103.070	0.98		269.7	FLOOD	7
107.000	RWP60	0.000	0.08		4.7	FLOOD RISK	
106.002	S401	45.641	1.63		310.2	FLOOD	7
108.000	RWP61	0.000	0.10		5.8	FLOOD RISK	
106.003	BRANCH	0.000	1.11		276.2	SURCHARGED*	
109.000	RWP62	0.000	0.05		2.7	FLOOD RISK	
106.004	BRANCH	0.000	1.08		267.5	SURCHARGED*	
110.000	RWP63	0.000	0.09		5.8	FLOOD RISK	
106.005	S402	2.375	1.13		244.7	FLOOD	1
111.000	RWP64	0.000	0.08		5.2	FLOOD RISK	
106.006	BRANCH	0.000	0.73		250.9	SURCHARGED*	
112.000	RWP65	0.000	0.00		0.1	FLOOD RISK	
106.007	BRANCH	0.000	0.72		248.5	SURCHARGED*	
113.000	SDP06	62.407	2.93		444.5	FLOOD	6
106.008	S403	0.032	2.41		595.0	FLOOD	
114.000	RWP66	0.000	0.10		6.5	FLOOD RISK	
106.009	BRANCH	0.000	1.48		598.1	SURCHARGED*	
115.000	RWP67	0.000	0.10		6.8	SURCHARGED	
106.010	BRANCH	0.000	1.47		595.4	SURCHARGED*	
116.000	RWP68	0.000	0.07		5.1	SURCHARGED	
106.011	BRANCH	0.000	1.23		574.4	SURCHARGED*	
117.000	RWP69	0.000	0.15		8.0	SURCHARGED	
106.012	S404	0.000	2.16		489.9	FLOOD RISK	
118.000	RWP70	0.000	0.12		8.0	SURCHARGED	
106.013	BRANCH	0.000	1.56		560.5	SURCHARGED*	
106.014	S405	45.288	1.29		483.7	FLOOD	7
119.000	RWP71	0.000	0.50		20.5	FLOOD RISK	
119.001	S406	3.306	0.59		13.1	FLOOD	5
120.000	RWP72	0.000	0.47		25.0	FLOOD RISK	
119.002	BRANCH	0.000	0.88		22.2	SURCHARGED*	
121.000	RWP73	0.000	0.45		27.9	FLOOD RISK	
119.003	S407	0.363	1.58		37.0	FLOOD	2
106.015	S408	0.000	0.81		421.2	FLOOD RISK	
122.000	RWP74	0.001	1.04		13.6	FLOOD	1
122.001	S409	3.618	1.64		21.1	FLOOD	5
123.000	RWP75	0.057	0.30		8.6	FLOOD	3
122.002	BRANCH	0.000	1.06		17.6	SURCHARGED*	

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

PN	US/MH Name	Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Volume (m ³)	Flow / Overflow Cap. (l/s)				
124.000	RWP76	0.000	0.27		9.0	FLOOD RISK	

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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
122.003	BRANCH	15 Summer	100	+45%					37.566	0.000
125.000	SDP7	15 Summer	100	+45%	30/15 Summer	100/15 Summer			39.038	1.088
126.000	SDP8	30 Winter	100	+45%	100/15 Summer				38.794	0.844
122.004	S410 (V)	30 Winter	100	+45%	30/15 Summer	100/15 Summer			38.669	1.599
127.000	SDP9	15 Summer	100	+45%	30/15 Summer	100/15 Summer			39.036	1.086
122.005	S411 (V)	30 Winter	100	+45%	30/15 Summer	100/15 Summer			38.651	1.630
128.000	RWP77	30 Summer	100	+45%	100/15 Summer				38.545	0.695
122.006	BRANCH	15 Summer	100	+45%					36.887	0.000
129.000	RWP78	30 Winter	100	+45%	100/15 Summer				38.385	0.535
122.007	BRANCH	15 Summer	100	+45%					36.650	0.000
130.000	RWP79	30 Winter	100	+45%	100/15 Summer				38.242	0.392
130.001	S412	30 Winter	100	+45%	100/15 Summer				38.236	0.686
131.000	RWP80	60 Summer	100	+45%	100/15 Summer	100/15 Summer			38.202	0.802
130.002	S413	30 Winter	100	+45%	100/15 Summer				38.228	0.897
132.000	RWP81	30 Winter	100	+45%	100/15 Summer				38.235	0.235
130.003	BRANCH	15 Summer	100	+45%					37.188	0.000
133.000	RWP82	60 Summer	100	+45%	100/15 Summer	100/15 Summer			38.201	0.851
130.004	BRANCH	15 Summer	100	+45%					37.083	0.000
134.000	RWP83	30 Summer	100	+45%	100/15 Summer				38.215	0.215
130.005	BRANCH	15 Summer	100	+45%					36.896	0.000
135.000	RWP84	30 Summer	100	+45%	100/15 Summer				38.208	0.208
130.006	S414	30 Summer	100	+45%	30/15 Summer				38.205	1.559
122.008	S415	60 Summer	100	+45%	30/15 Summer				38.195	1.740
106.016	S416	15 Winter	100	+45%	30/15 Summer	100/15 Summer			38.002	1.877
136.000	RWP85	60 Summer	100	+45%	100/15 Summer				37.819	0.819
106.017	S417	60 Summer	100	+45%	30/15 Summer	100/15 Summer			37.811	1.768
137.000	RWP86	60 Summer	100	+45%	100/15 Summer				37.780	0.780
106.018	S418	15 Winter	100	+45%	30/15 Summer	100/15 Summer			37.751	1.770
106.019	S419	15 Winter	100	+45%	30/15 Summer				37.703	1.834
138.000	RWP87	15 Summer	100	+45%					37.906	-0.094
106.020	BRANCH	15 Summer	100	+45%					35.829	0.000
139.000	RWP88	15 Summer	100	+45%					37.914	-0.086
106.021	BRANCH	15 Summer	100	+45%					35.802	0.000
140.000	RWP89	15 Summer	100	+45%					37.906	-0.094
106.022	S420	60 Summer	100	+45%	30/15 Summer				37.466	1.706
141.000	RWP90	15 Summer	100	+45%					37.899	-0.101
106.023	BRANCH	15 Summer	100	+45%					35.728	0.000
142.000	RWP91	15 Summer	100	+45%					37.897	-0.103
106.024	BRANCH	15 Summer	100	+45%					35.703	0.000
143.000	RWP92	15 Summer	100	+45%					37.898	-0.102
106.025	BRANCH	15 Summer	100	+45%					35.675	0.000
144.000	GULLEY	15 Summer	100	+45%	30/15 Summer	100/15 Summer			38.850	0.900
144.001	S421	15 Summer	100	+45%	30/15 Summer				38.483	0.741
106.026	S422	60 Winter	100	+45%	30/15 Summer				37.221	1.568
145.000	RWP93	15 Summer	100	+45%					37.850	-0.150
106.027	BRANCH	15 Summer	100	+45%					35.643	0.000
146.000	RWP94	15 Summer	100	+45%					37.850	-0.150
106.028	BRANCH	15 Summer	100	+45%					35.616	0.000
147.000	RWP95	15 Summer	100	+45%					37.850	-0.150
106.029	BRANCH	15 Summer	100	+45%					35.578	0.000
148.000	RWP96	15 Summer	100	+45%					37.850	-0.150
106.030	S423	60 Winter	100	+45%	30/30 Summer				36.714	1.163
149.000	RWP96	15 Summer	100	+45%					37.905	-0.095
106.031	BRANCH	15 Summer	100	+45%					35.517	0.000
150.000	RWP97	15 Summer	100	+45%					37.905	-0.095

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

PN	US/MH Name	Flooded		Overflow (l/s)	Half Drain	Pipe	Status	Level Exceeded
		Volume (m³)	Flow / Cap.		Time (mins)	Flow (l/s)		
122.003	BRANCH	0.000	1.77			23.8	SURCHARGED*	
125.000	SDP7	37.937	2.70			561.2	FLOOD	5
126.000	SDP8	0.000	0.36			74.5	FLOOD RISK	
122.004	S410 (V)	18.998	0.85			474.0	FLOOD	5
127.000	SDP9	36.085	2.74			569.1	FLOOD	5
122.005	S411 (V)	1.418	1.48			899.8	FLOOD	4
128.000	RWP77	0.000	0.28			13.6	FLOOD RISK	
122.006	BRANCH	0.000	1.44			1095.9	SURCHARGED*	
129.000	RWP78	0.000	0.20			10.5	SURCHARGED	
122.007	BRANCH	0.000	1.60			1108.8	SURCHARGED*	
130.000	RWP79	0.000	0.07			2.3	SURCHARGED	
130.001	S412	0.000	0.13			2.2	SURCHARGED	
131.000	RWP80	2.362	1.02			15.0	FLOOD	7
130.002	S413	0.000	1.02			16.6	SURCHARGED	
132.000	RWP81	0.000	0.06			3.2	SURCHARGED	
130.003	BRANCH	0.000	0.72			12.7	SURCHARGED*	
133.000	RWP82	1.458	0.37			10.8	FLOOD	6
130.004	BRANCH	0.000	1.25			22.3	SURCHARGED*	
134.000	RWP83	0.000	0.05			3.5	SURCHARGED	
130.005	BRANCH	0.000	1.21			21.5	SURCHARGED*	
135.000	RWP84	0.000	0.05			3.5	SURCHARGED	
130.006	S414	0.000	1.82			28.0	SURCHARGED	
122.008	S415	0.000	0.91			818.1	SURCHARGED	
106.016	S416	2.234	1.77			1279.5	FLOOD	5
136.000	RWP85	0.000	0.17			10.3	SURCHARGED	
106.017	S417	62.540	1.65			1118.8	FLOOD	6
137.000	RWP86	0.000	0.17			10.6	SURCHARGED	
106.018	S418	4.848	1.46			1114.1	FLOOD	2
106.019	S419	0.000	1.91			1038.5	SURCHARGED	
138.000	RWP87	0.000	0.29			25.0	OK	
106.020	BRANCH	0.000	1.33			1019.1	SURCHARGED*	
139.000	RWP88	0.000	0.37			31.6	OK	
106.021	BRANCH	0.000	1.20			1029.3	SURCHARGED*	
140.000	RWP89	0.000	0.29			25.4	OK	
106.022	S420	0.000	2.11			969.7	SURCHARGED	
141.000	RWP90	0.000	0.23			19.8	OK	
106.023	BRANCH	0.000	1.28			976.2	SURCHARGED*	
142.000	RWP91	0.000	0.21			18.8	OK	
106.024	BRANCH	0.000	1.29			982.5	SURCHARGED*	
143.000	RWP92	0.000	0.22			19.4	OK	
106.025	BRANCH	0.000	1.30			990.4	SURCHARGED*	
144.000	GULLEY	0.291	1.46			41.8	FLOOD	1
144.001	S421	0.000	1.66			38.7	SURCHARGED	
106.026	S422	0.000	1.87			961.7	SURCHARGED	
145.000	RWP93	0.000	0.00			0.0	OK	
106.027	BRANCH	0.000	1.26			979.2	SURCHARGED*	
146.000	RWP94	0.000	0.00			0.0	OK	
106.028	BRANCH	0.000	1.19			969.9	SURCHARGED*	
147.000	RWP95	0.000	0.00			0.0	OK	
106.029	BRANCH	0.000	1.24			961.4	SURCHARGED*	
148.000	RWP96	0.000	0.00			0.0	OK	
106.030	S423	0.000	2.03			964.8	SURCHARGED	
149.000	RWP96	0.000	0.28			25.5	OK	
106.031	BRANCH	0.000	1.27			968.8	SURCHARGED*	

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PN	US/MH Name	Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Volume (m ³)	Flow / Overflow Cap. (l/s)				
150.000	RWP97	0.000	0.28		25.5	OK	

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PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
106.032	BRANCH	15 Summer	100	+45%					35.497	0.000
151.000	SDP10	15 Summer	100	+45%	1/15 Summer	100/15 Summer			39.069	1.194
151.001	S424(V)	15 Summer	100	+45%	30/15 Summer				38.185	0.835
152.000	RWP98	15 Summer	100	+45%	100/15 Summer				38.010	0.010
151.002	S425	15 Summer	100	+45%	30/15 Summer				37.961	0.649
153.000	RWP99	15 Summer	100	+45%	100/15 Summer				37.764	0.014
151.003	BRANCH	15 Summer	100	+45%					37.243	0.000
154.000	RWP100	15 Summer	100	+45%					37.632	-0.118
151.004	BRANCH	15 Summer	100	+45%					37.237	0.000
106.033	S426	60 Summer	100	+45%	100/15 Summer				36.516	1.076
155.000	RWP101	15 Summer	100	+45%					37.908	-0.092
155.001	S427	15 Summer	100	+45%					37.501	-0.031
156.000	RWP102	15 Summer	100	+45%					37.655	-0.095
155.002	BRANCH	15 Summer	100	+45%					37.185	0.000
157.000	RWP103	15 Summer	100	+45%					37.631	-0.119
155.003	BRANCH	15 Summer	100	+45%					37.154	0.000
106.034	S428	60 Summer	100	+45%	100/15 Summer				36.262	1.011
158.000	RWP106	15 Summer	100	+45%					37.936	-0.014
158.001	S429	15 Summer	100	+45%	30/15 Summer				37.929	0.120
159.000	RWP107	15 Summer	100	+45%					37.914	-0.086
160.000	SDP11	15 Summer	100	+45%	1/15 Summer	100/15 Summer			39.060	1.185
158.002	S430(V)	15 Summer	100	+45%	30/15 Summer				37.910	0.560
106.035	S431	60 Summer	100	+45%	30/30 Summer				36.006	0.956
106.036	S432(SUDS)	60 Summer	100	+45%	100/15 Summer				35.597	0.605
106.037	ATT INLET	03 15 Summer	100	+45%					34.968	0.000
161.000	OB31	30 Summer	100	+45%	30/15 Summer	100/15 Summer			38.562	0.907
161.001	S300	15 Summer	100	+45%	100/15 Summer				38.516	0.929
162.000	OB32	30 Summer	100	+45%	100/15 Summer	100/15 Summer			38.556	0.901
161.002	S301	15 Summer	100	+45%	30/15 Summer				38.436	1.724
163.000	OB33	15 Summer	100	+45%	100/15 Summer				38.154	0.773
161.003	BRANCH	15 Summer	100	+45%					36.306	0.000
161.004	S302	30 Summer	100	+45%	100/15 Summer				37.903	1.750
164.000	OB34	30 Summer	100	+45%	100/15 Summer	100/15 Summer			37.706	0.841
161.005	BRANCH	15 Summer	100	+45%					35.864	0.000
165.000	OB37	30 Summer	100	+45%	100/15 Summer	100/15 Summer			37.697	0.982
166.000	OB35	30 Summer	100	+45%	100/15 Summer	100/15 Summer			37.614	0.904
166.001	S303	30 Summer	100	+45%	30/15 Summer				37.618	1.908
167.000	OB36	30 Summer	100	+45%	100/15 Summer	100/15 Summer			38.076	0.901
161.006	S304	30 Summer	100	+45%	30/15 Summer				37.636	2.335
168.000	OB38	30 Summer	100	+45%	100/15 Summer	100/15 Summer			37.693	0.903
161.007	S305	30 Summer	100	+45%	30/15 Summer				37.491	2.390
169.000	OB39	30 Summer	100	+45%	100/15 Summer				37.540	0.750
161.008	BRANCH	15 Summer	100	+45%					34.930	0.000
170.000	OB40	30 Summer	100	+45%	100/30 Summer				37.127	0.094
161.009	S306	30 Summer	100	+45%	30/15 Summer				37.090	2.207
171.000	OB40a	15 Summer	100	+45%					36.979	-0.054
172.000	OB41	30 Summer	100	+45%	100/15 Summer				36.972	0.182
161.010	S307	30 Summer	100	+45%	30/15 Summer				36.834	2.038
173.000	OB42	15 Summer	100	+45%					36.700	-0.150
161.011	BRANCH	15 Summer	100	+45%					34.721	0.000
174.000	OB43	15 Summer	100	+45%	100/15 Summer				37.868	0.453
161.012	S308	30 Summer	100	+45%	30/15 Winter				36.479	1.820
175.000	OB44	15 Summer	100	+45%					37.513	-0.052
161.013	BRANCH	15 Summer	100	+45%					34.574	0.000
176.000	OB45	15 Summer	100	+45%	100/15 Summer				37.724	0.084

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

PN	US/MH Name	Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Volume (m³)	Flow / Overflow Cap. (l/s)				
106.032	BRANCH	0.000	1.04		970.9	SURCHARGED*	
151.000	SDP10	69.428	2.58		391.0	FLOOD	5
151.001	S424 (V)	0.000	2.33		372.0	SURCHARGED	
152.000	RWP98	0.000	0.25		12.8	SURCHARGED	
151.002	S425	0.000	1.89		377.3	SURCHARGED	
153.000	RWP99	0.000	0.29		12.8	SURCHARGED	
151.003	BRANCH	0.000	1.57		389.1	SURCHARGED*	
154.000	RWP100	0.000	0.10		4.2	OK	
151.004	BRANCH	0.000	1.58		392.9	SURCHARGED*	
106.033	S426	0.000	1.12		1314.4	SURCHARGED	
155.000	RWP101	0.000	0.32		13.5	OK	
155.001	S427	0.000	0.56		12.5	OK	
156.000	RWP102	0.000	0.29		13.4	OK	
155.002	BRANCH	0.000	2.22		24.5	SURCHARGED*	
157.000	RWP103	0.000	0.09		4.3	OK	
155.003	BRANCH	0.000	1.37		28.1	SURCHARGED*	
106.034	S428	0.000	1.12		1329.2	SURCHARGED	
158.000	RWP106	0.000	0.17		4.0	OK	
158.001	S429	0.000	0.12		3.8	SURCHARGED	
159.000	RWP107	0.000	0.08		4.0	OK	
160.000	SDP11	59.746	2.77		420.2	FLOOD	5
158.002	S430 (V)	0.000	2.17		425.0	SURCHARGED	
106.035	S431	0.000	2.56		1694.7	SURCHARGED	
106.036	S432 (SUDES)	0.000	2.59		1691.4	SURCHARGED	
106.037	ATT INLET 03	0.000	1.25		1465.7	SURCHARGED*	
161.000	OB31	7.113	3.22		52.6	FLOOD	5
161.001	S300	0.000	0.79		42.6	FLOOD RISK	
162.000	OB32	0.593	0.61		36.8	FLOOD	3
161.002	S301	0.000	1.29		63.8	FLOOD RISK	
163.000	OB33	0.000	0.29		19.0	FLOOD RISK	
161.003	BRANCH	0.000	1.46		75.8	SURCHARGED*	
161.004	S302	0.000	0.89		91.7	FLOOD RISK	
164.000	OB34	15.672	0.70		98.9	FLOOD	5
161.005	BRANCH	0.000	1.18		149.0	SURCHARGED*	
165.000	OB37	6.633	0.83		62.1	FLOOD	5
166.000	OB35	4.420	0.69		29.2	FLOOD	5
166.001	S303	0.000	1.71		29.5	SURCHARGED	
167.000	OB36	1.021	0.67		118.0	FLOOD	2
161.006	S304	0.000	1.44		247.2	FLOOD RISK	
168.000	OB38	3.046	0.69		126.8	FLOOD	2
161.007	S305	0.000	1.42		333.0	FLOOD RISK	
169.000	OB39	0.000	0.61		117.0	FLOOD RISK	
161.008	BRANCH	0.000	1.82		451.6	SURCHARGED*	
170.000	OB40	0.000	0.55		20.7	SURCHARGED	
161.009	S306	0.000	2.02		416.4	SURCHARGED	
171.000	OB40a	0.000	0.73		27.6	OK	
172.000	OB41	0.000	1.02		84.0	SURCHARGED	
161.010	S307	0.000	1.71		498.5	SURCHARGED	
173.000	OB42	0.000	0.00		0.0	OK	
161.011	BRANCH	0.000	1.46		507.7	SURCHARGED*	
174.000	OB43	0.000	1.18		76.5	SURCHARGED	
161.012	S308	0.000	1.77		530.1	SURCHARGED	
175.000	OB44	0.000	0.75		81.5	OK	
161.013	BRANCH	0.000	1.59		582.6	SURCHARGED*	

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

PN	US/MH Name	Flooded Volume (m ³)	Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
176.000	OB45	0.000	1.03		176.5	SURCHARGED	

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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)
161.014	S309	30 Summer	100	+45%	100/15 Summer				35.910	1.507
177.000	OB46	15 Summer	100	+45%					37.470	-0.095
161.015	S310	30 Summer	100	+45%	100/15 Summer				35.583	1.332
178.000	OB47	15 Summer	100	+45%					37.429	-0.086
161.016	BRANCH	15 Summer	100	+45%					34.201	0.000
179.000	OB48	15 Summer	100	+45%					37.455	-0.095
180.000	OB49	15 Summer	100	+45%	100/15 Summer				38.152	0.484
161.017	S311	30 Summer	100	+45%	100/15 Summer				35.027	0.952
181.000	OB50	15 Summer	100	+45%	100/15 Summer				38.458	0.841
181.001	S312	15 Summer	100	+45%	100/15 Summer				38.219	0.776
182.000	OB51	15 Summer	100	+45%					37.608	-0.059
181.002	S313	15 Summer	100	+45%	100/15 Summer				37.442	0.417
183.000	OB52	15 Summer	100	+45%					37.521	-0.059
181.003	BRANCH	15 Summer	100	+45%					36.366	0.000
181.004	S314	15 Summer	100	+45%	30/15 Summer				36.472	0.392
184.000	OB53	15 Summer	100	+45%					37.441	-0.089
161.018	S315	30 Summer	100	+45%	100/15 Summer				34.637	0.702
161.019	INT02 (SUDS)	360 Winter	100	+45%	30/15 Summer				34.416	0.612
161.020	S316	360 Winter	100	+45%	100/15 Summer				34.413	0.640
161.021	ATT INLET 02	15 Summer	100	+45%					33.750	0.000
2.020	ATT TANK 01	360 Winter	100	+45%	30/60 Summer				34.409	0.809
2.021	CONNECTION	360 Winter	100	+45%	100/30 Summer				34.399	0.849
185.000	OB60	15 Summer	100	+45%	100/15 Summer	100/15 Summer			38.427	0.828
186.000	OB61	15 Summer	100	+45%	30/15 Summer	100/15 Summer			38.275	0.838
185.001	S500	15 Summer	100	+45%	30/15 Summer				38.265	1.070
185.002	S501	15 Summer	100	+45%	30/15 Summer				38.171	1.131
187.000	OB62	15 Summer	100	+45%	100/15 Summer	100/15 Summer			38.107	0.829
185.003	BRANCH	15 Summer	100	+45%					36.871	0.000
188.000	OB63	30 Summer	100	+45%	100/15 Summer				37.848	0.807
189.000	OB64	15 Summer	100	+45%	30/15 Summer	100/15 Summer			37.824	0.905
185.004	S502	30 Summer	100	+45%	30/15 Summer				37.761	1.125
190.000	OB65	15 Summer	100	+45%	30/15 Summer	100/15 Summer			37.619	0.900
185.005	BRANCH	15 Summer	100	+45%					36.508	0.000
191.000	OB66	15 Summer	100	+45%	100/15 Summer				37.099	0.330
185.006	S503	15 Summer	100	+45%	30/15 Summer				37.070	0.611
192.000	OB67	15 Summer	100	+45%	30/15 Summer				37.180	0.841
185.007	BRANCH	15 Summer	100	+45%					36.295	0.000
193.000	OB68	15 Summer	100	+45%					36.645	-0.071
185.008	BRANCH	15 Summer	100	+45%					36.151	0.000
194.000	OB69	30 Summer	100	+45%	30/15 Summer	100/15 Summer			37.325	0.847
195.000	OB70	30 Summer	100	+45%	30/15 Summer	100/15 Summer			37.273	0.923
194.001	S504	15 Summer	100	+45%	30/15 Summer				37.261	1.081
196.000	OB71	30 Summer	100	+45%	30/15 Summer	100/15 Summer			37.233	0.905
194.002	S505	15 Summer	100	+45%	30/15 Summer				37.217	1.172
197.000	OB72	15 Summer	100	+45%	100/15 Summer				37.170	0.705
198.000	OB73	15 Summer	100	+45%	30/15 Summer	100/15 Summer			37.236	0.841
194.003	S506	15 Summer	100	+45%	30/15 Summer				37.139	1.202
199.000	OB75	30 Summer	100	+45%	30/15 Summer	100/15 Summer			37.353	0.856
200.000	OB74	15 Summer	100	+45%	30/15 Summer				37.501	0.840
200.001	S507	15 Summer	100	+45%	30/15 Summer				37.482	1.075
199.001	S508	15 Summer	100	+45%	30/15 Summer				37.334	1.296
201.000	OB76	15 Summer	100	+45%	100/15 Summer				37.307	0.739
194.004	S509	15 Summer	100	+45%	30/15 Summer				37.040	1.262
194.005	S510	15 Summer	100	+45%	30/15 Summer				36.900	1.203
202.000	OB77	15 Summer	100	+45%	100/15 Summer				36.951	0.202

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PN	US/MH Name	Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Volume (m³)	Flow / Overflow Cap. (l/s)				
161.014	S309	0.000	1.53		664.2	SURCHARGED	
177.000	OB46	0.000	0.29		22.3	OK	
161.015	S310	0.000	1.89		665.4	SURCHARGED	
178.000	OB47	0.000	0.38		42.8	OK	
161.016	BRANCH	0.000	1.38		644.3	SURCHARGED*	
179.000	OB48	0.000	0.29		22.2	OK	
180.000	OB49	0.000	1.13		87.8	SURCHARGED	
161.017	S311	0.000	1.68		720.0	SURCHARGED	
181.000	OB50	0.000	1.31		34.3	FLOOD RISK	
181.001	S312	0.000	1.39		30.5	SURCHARGED	
182.000	OB51	0.000	0.58		29.4	OK	
181.002	S313	0.000	0.84		53.5	SURCHARGED	
183.000	OB52	0.000	0.67		46.6	OK	
181.003	BRANCH	0.000	1.35		91.0	SURCHARGED*	
181.004	S314	0.000	1.74		90.8	SURCHARGED	
184.000	OB53	0.000	0.35		29.4	OK	
161.018	S315	0.000	2.25		808.5	SURCHARGED	
161.019	INT02 (SUDS)	0.000	0.65		232.4	SURCHARGED	
161.020	S316	0.000	0.91		232.3	SURCHARGED	
161.021	ATT INLET 02	0.000	1.24		749.7	SURCHARGED*	
2.020	ATT TANK 01	0.000	2.17		1789.4	SURCHARGED	
2.021	CONNECTION	0.000	1.41		1786.2	SURCHARGED	
185.000	OB60	2.997	0.66		95.1	FLOOD	4
186.000	OB61	12.951	0.76		93.1	FLOOD	5
185.001	S500	0.000	1.07		141.7	FLOOD RISK	
185.002	S501	0.000	0.96		129.9	SURCHARGED	
187.000	OB62	4.147	0.45		71.3	FLOOD	5
185.003	BRANCH	0.000	1.09		191.2	SURCHARGED*	
188.000	OB63	0.000	0.42		16.8	FLOOD RISK	
189.000	OB64	5.429	1.36		45.3	FLOOD	5
185.004	S502	0.000	1.66		229.7	FLOOD RISK	
190.000	OB65	0.238	0.95		27.2	FLOOD	3
185.005	BRANCH	0.000	2.28		244.6	SURCHARGED*	
191.000	OB66	0.000	0.23		5.1	SURCHARGED	
185.006	S503	0.000	1.23		250.1	SURCHARGED	
192.000	OB67	0.000	2.73		81.5	FLOOD RISK	
185.007	BRANCH	0.000	1.54		329.1	SURCHARGED*	
193.000	OB68	0.000	0.54		25.5	OK	
185.008	BRANCH	0.000	2.08		352.1	SURCHARGED*	
194.000	OB69	4.998	1.07		27.3	FLOOD	5
195.000	OB70	22.621	0.84		86.3	FLOOD	5
194.001	S504	0.000	1.15		93.7	FLOOD RISK	
196.000	OB71	5.367	1.07		32.7	FLOOD	5
194.002	S505	0.000	1.44		111.8	FLOOD RISK	
197.000	OB72	0.000	0.22		10.0	FLOOD RISK	
198.000	OB73	16.020	0.81		137.8	FLOOD	5
194.003	S506	0.000	1.08		238.9	FLOOD RISK	
199.000	OB75	5.899	0.74		31.4	FLOOD	5
200.000	OB74	0.000	0.48		14.5	FLOOD RISK	
200.001	S507	0.000	0.65		12.4	FLOOD RISK	
199.001	S508	0.000	1.74		32.6	FLOOD RISK	
201.000	OB76	0.000	0.54		30.3	FLOOD RISK	
194.004	S509	0.000	1.71		265.0	SURCHARGED	
194.005	S510	0.000	1.69		247.8	SURCHARGED	

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

PN	US/MH Name	Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Volume (m ³)	Flow / Overflow Cap. (l/s)				
202.000	OB77	0.000	0.65		44.6	SURCHARGED	



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

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) SurchARGE	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level	Surcharged Depth
									(m)	(m)
194.006	S511	15 Summer	100	+45%	30/15 Summer				36.640	1.085
203.000	OB78	15 Summer	100	+45%					36.678	-0.071
194.007	S512	15 Summer	100	+45%	30/15 Summer				36.209	0.861
185.009	S513	15 Summer	100	+45%	30/15 Summer				35.992	0.778
204.000	OB79	15 Summer	100	+45%	30/15 Summer	100/15 Summer			38.110	0.792
204.001	S514	15 Summer	100	+45%	30/15 Summer				37.855	0.855
205.000	OB80	15 Summer	100	+45%	30/15 Summer	100/15 Summer			37.819	0.900
204.002	BRANCH	15 Summer	100	+45%					36.869	0.000
185.010	S515	15 Summer	100	+45%	30/15 Summer				35.831	0.669
206.000	OB83	15 Summer	100	+45%	30/15 Summer	100/15 Summer			37.901	0.901
207.000	OB84	15 Summer	100	+45%	100/15 Summer				37.660	0.550
208.000	OB81	15 Summer	100	+45%	30/15 Summer	100/15 Summer			38.142	0.845
209.000	OB82	15 Summer	100	+45%	100/15 Summer				37.961	0.699
208.001	S516	15 Summer	100	+45%	30/15 Summer				37.795	0.785
210.000	GULLY	15 Summer	100	+45%	100/15 Summer				37.501	0.016
208.002	BRANCH	15 Summer	100	+45%					36.836	0.000
206.001	S517	15 Summer	100	+45%	30/15 Summer				37.353	0.629
211.000	OB90A	15 Summer	100	+45%	100/15 Summer				37.033	0.083
212.000	OB90	15 Summer	100	+45%	100/15 Summer				37.031	0.081
213.000	OB85	15 Summer	100	+45%	100/15 Summer				37.779	0.841
214.000	OB86	30 Summer	100	+45%	30/15 Summer	100/15 Summer			37.526	0.848
213.001	S518	15 Summer	100	+45%	30/15 Summer				37.567	1.162
215.000	OB87	15 Summer	100	+45%	100/15 Summer	100/15 Summer			37.719	0.849
213.002	BRANCH	15 Summer	100	+45%					36.260	0.000
216.000	OB88	15 Summer	100	+45%	100/15 Summer				37.558	0.561
217.000	OB89	15 Summer	100	+45%	100/15 Summer				37.332	0.296
213.003	S519	15 Summer	100	+45%	30/15 Summer				37.185	1.093
206.002	S520	15 Summer	100	+45%	100/15 Summer				37.024	1.002
218.000	OB92	15 Summer	100	+45%					36.928	-0.095
219.000	OB91	15 Summer	100	+45%	100/15 Summer				36.769	0.261
220.000	OB93	15 Summer	100	+45%	100/15 Summer				36.877	0.487
206.003	S521	15 Summer	100	+45%	100/15 Summer				36.598	0.925
221.000	OB94	15 Summer	100	+45%	100/15 Summer				36.846	0.393
206.004	BRANCH	15 Summer	100	+45%					35.264	0.000
222.000	OB95	15 Summer	100	+45%					36.651	-0.099
185.011	S522	15 Summer	100	+45%	30/15 Summer				35.638	0.523
185.012	INT03 (SUDES)	15 Summer	100	+45%	30/15 Summer				35.317	0.548
185.013	S523	15 Summer	100	+45%	30/15 Summer				34.996	0.254
185.014	ATT INLET 04	360 Winter	100	+45%					34.393	-0.331
2.022	ATT TANK 02	360 Winter	100	+45%	30/60 Summer				34.392	1.567
2.023	S524	360 Winter	100	+45%	1/360 Summer				34.465	1.677
2.024	S524 (SUDES)	360 Winter	100	+45%	1/240 Winter				34.480	1.760
2.025	SWPS01	360 Winter	100	+45%	1/120 Summer				34.472	1.987
2.026	458	240 Summer	100	+45%					36.300	0.000

PN	US/MH Name	Flooded		Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Volume (m³)	Flow / Cap. (l/s)				
194.006	S511	0.000	1.52		260.7	SURCHARGED	
203.000	OB78	0.000	0.54		40.2	OK	
194.007	S512	0.000	1.23		281.8	SURCHARGED	
185.009	S513	0.000	1.30		623.3	SURCHARGED	
204.000	OB79	7.164	0.96		130.5	FLOOD	3

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

PN	US/MH Name	Flooded		Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Volume (m ³)	Flow / Cap.					
204.001	S514	0.000	1.71			126.9	SURCHARGED	
205.000	OB80	0.412	2.61			82.3	FLOOD	1
204.002	BRANCH	0.000	3.29			206.9	SURCHARGED*	
185.010	S515	0.000	1.44			826.1	SURCHARGED	
206.000	OB83	0.691	1.69			33.5	FLOOD	3
207.000	OB84	0.000	1.04			39.6	SURCHARGED	
208.000	OB81	3.446	1.73			36.9	FLOOD	3
209.000	OB82	0.000	0.94			28.8	FLOOD RISK	
208.001	S516	0.000	1.45			53.9	SURCHARGED	
210.000	GULLY	0.000	0.01			0.3	SURCHARGED	
208.002	BRANCH	0.000	1.29			54.6	SURCHARGED*	
206.001	S517	0.000	2.08			117.5	SURCHARGED	
211.000	OB90A	0.000	0.09			5.5	SURCHARGED	
212.000	OB90	0.000	0.09			5.5	SURCHARGED	
213.000	OB85	0.000	0.70			29.2	FLOOD RISK	
214.000	OB86	5.971	1.65			37.2	FLOOD	4
213.001	S518	0.000	1.52			49.3	FLOOD RISK	
215.000	OB87	0.005	0.61			27.2	FLOOD	
213.002	BRANCH	0.000	1.61			58.9	SURCHARGED*	
216.000	OB88	0.000	0.79			29.0	SURCHARGED	
217.000	OB89	0.000	0.51			30.5	SURCHARGED	
213.003	S519	0.000	1.51			97.9	SURCHARGED	
206.002	S520	0.000	1.21			237.3	SURCHARGED	
218.000	OB92	0.000	0.29			13.4	OK	
219.000	OB91	0.000	0.59			33.6	SURCHARGED	
220.000	OB93	0.000	0.75			90.1	SURCHARGED	
206.003	S521	0.000	0.95			325.2	SURCHARGED	
221.000	OB94	0.000	0.80			120.8	SURCHARGED	
206.004	BRANCH	0.000	2.05			434.8	SURCHARGED*	
222.000	OB95	0.000	0.25			19.8	OK	
185.011	S522	0.000	3.62			1269.2	SURCHARGED	
185.012	INT03 (SUDS)	0.000	3.34			1270.1	SURCHARGED	
185.013	S523	0.000	3.46			1268.3	SURCHARGED	
185.014	ATT INLET 04	0.000	0.11			308.5	OK*	
2.022	ATT TANK 02	0.000	2.76			327.3	SURCHARGED	
2.023	S524	0.000	1.34			267.4	SURCHARGED	
2.024	S524 (SUDS)	0.000	2.04			237.5	SURCHARGED	
2.025	SWPS01	0.000	4.94			163.9	SURCHARGED	
2.026	458	0.000	1.17			159.1	OK	