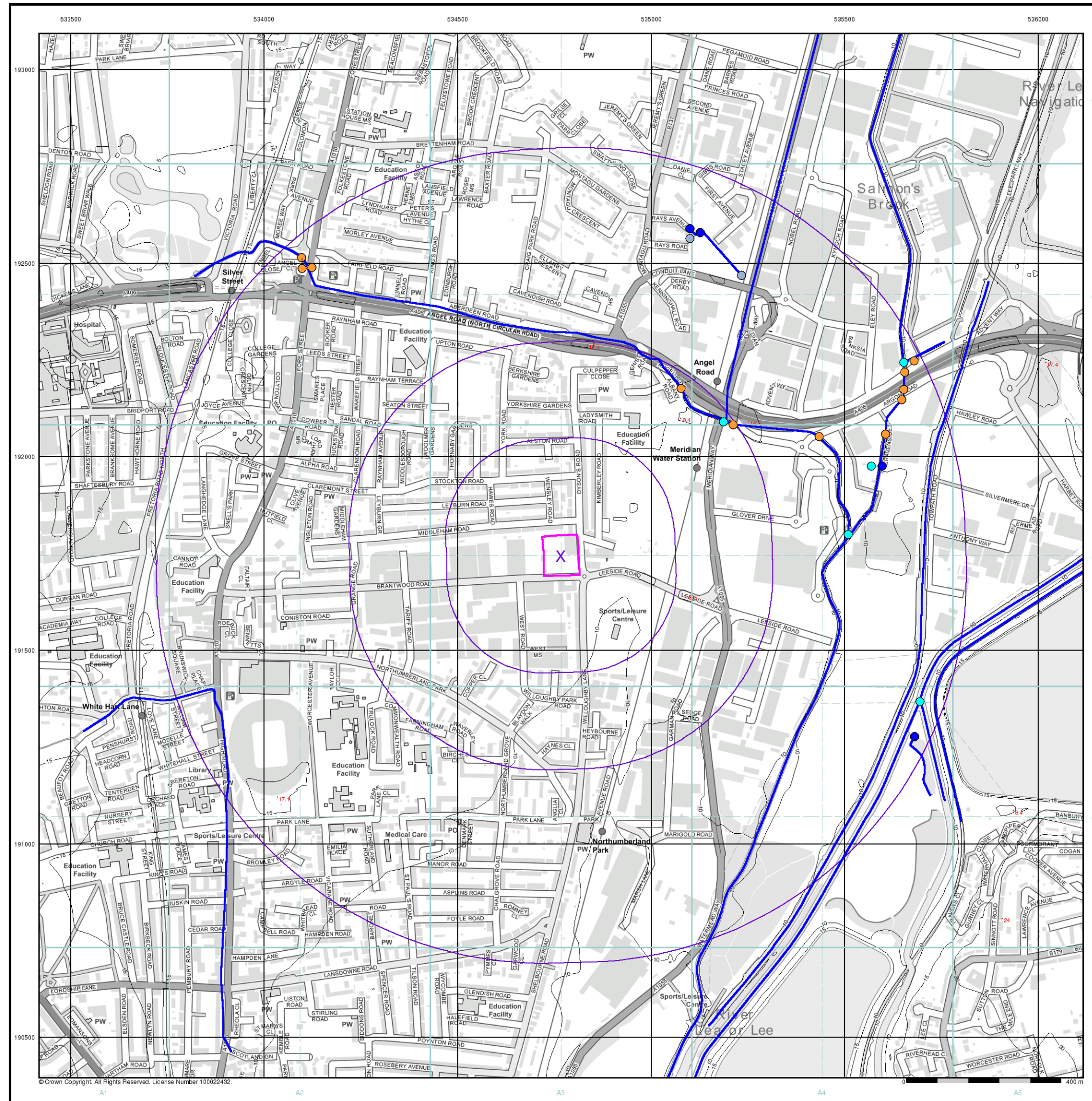




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OS Water Network Lines Map (1:10,000)

General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

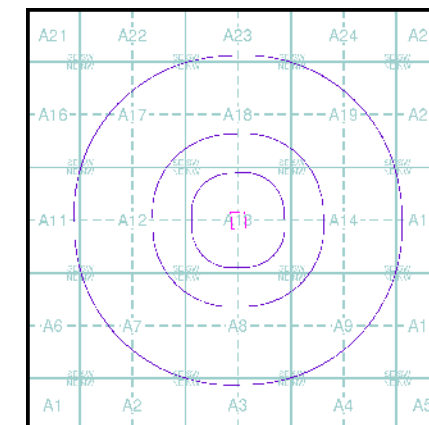
OS Water Network Data

- | | |
|--------------|-------------------------|
| Canal | Drain |
| Reservoir | Other |
| Foreshore | Lake |
| Marsh | Transfer |
| Tidal River | Lock Or Flight Of Locks |
| Inland River | Sea |
| Junction | Source |
| Outlet | Other |
| Pseudo | |

Contours (height in meters)

- Standard Contour 105 100 95
- Master Contour 100 95
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

OS Water Network Map - Slice A



Order Details

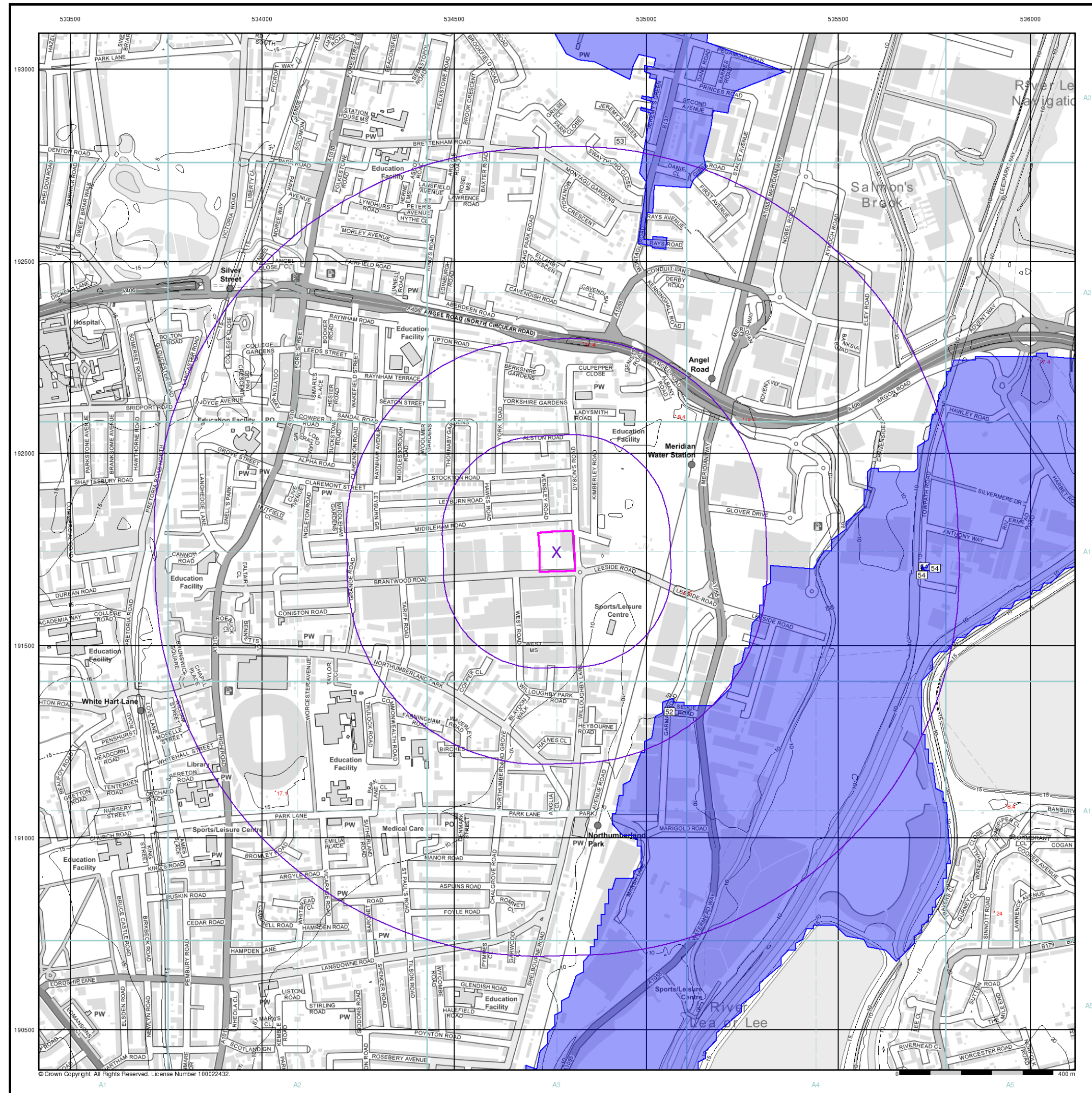
Order Number: 282662955_1_1
Customer Ref: 63282
National Grid Reference: 534770, 191740
Slice: A
Site Area (Ha): 0.96
Search Buffer (m): 1000

Site Details

Site at 534770, 191740

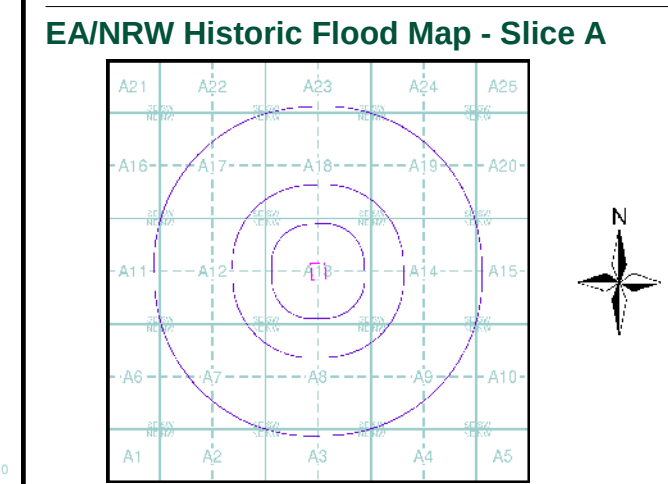
Landmark
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EANRW Historic Flood Map (1:10,000)

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
- Historic Flood Events Data**
- | | |
|--|---------------------------------------|
| Channel Capacity Exceeded (no raised defences) | Obstruction/Blockage - Culvert |
| Channel Capacity Exceeded /Surface Water | Obstruction/Blockage - Debris Screen |
| Groundwater/High Water Table | Operational Failure/Breach of Defence |
| Local Drainage/Surface Water | Other |
| Mechanical Failure | Overtopping of Defences |
| Obstruction/Blockage - Bridge | Surface Water |
| Obstruction/Blockage - Channel | Unknown |
| Historical Flood Liabilities | |
- Contours (height in metres)**
- Standard Contour 105 100 95
- Master Contour
- Spot Height 167.8
- MLW Mean Low Water
- MHW Mean High Water

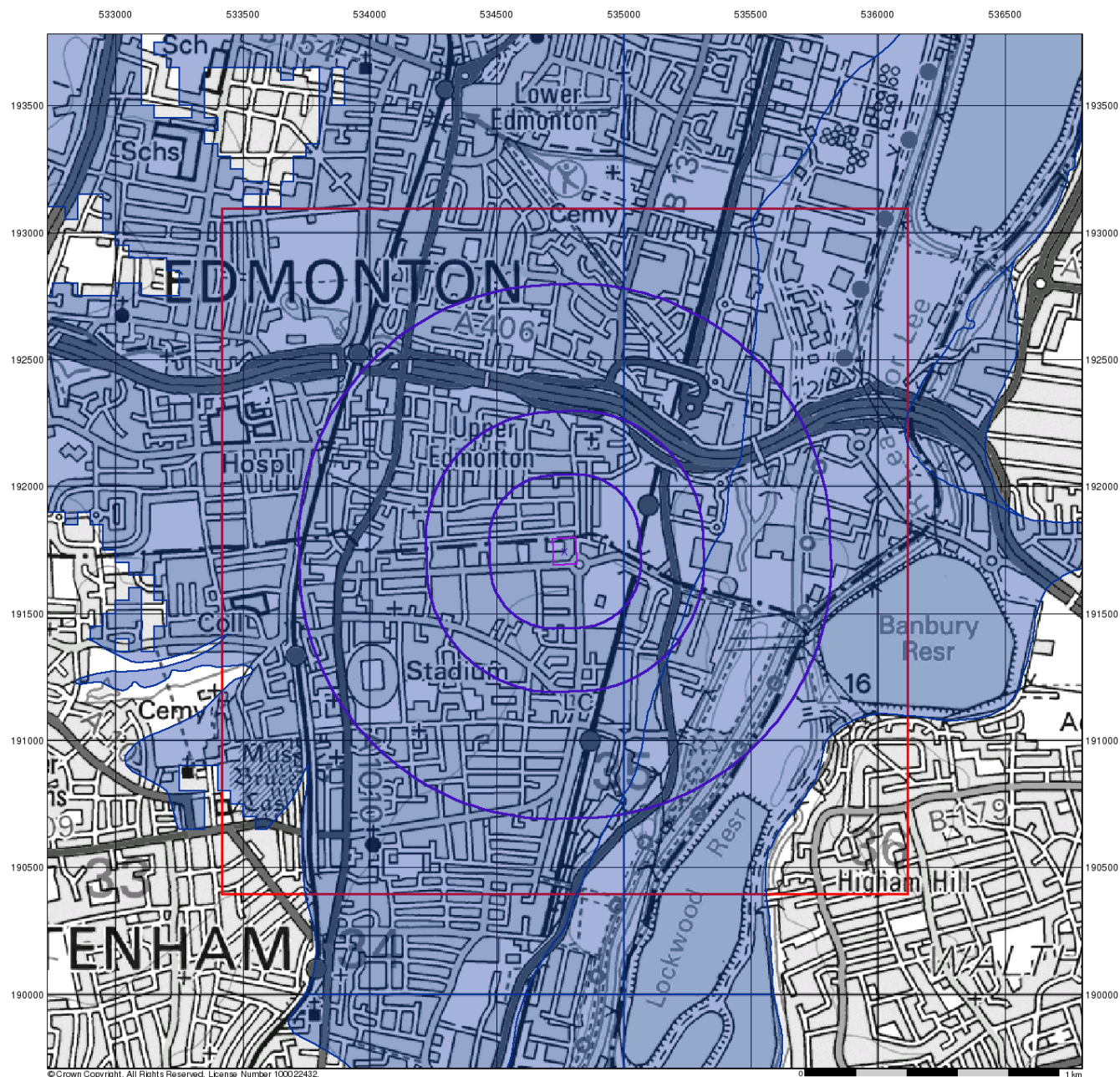


Order Details

Order Number: 282662955_1_1
Customer Ref: 63282
National Grid Reference: 534770, 191740
Slice: A
Site Area (Ha): 0.96
Search Buffer (m): 1000

Site Details

Site at 534770, 191740



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BGS Flood Data (1:50,000)

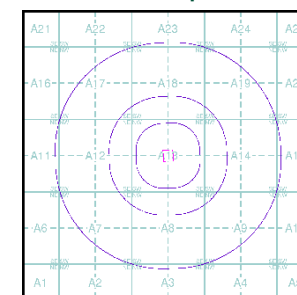
General

- Specified Site ○ Specified Buffer(s) X Bearing Reference Point
- Slice B Map ID

BGS Geological Indicators of Flooding

- Coastal
- Inland
- Bodies of Water

BGS Flood Data Map - Slice A



Order Details

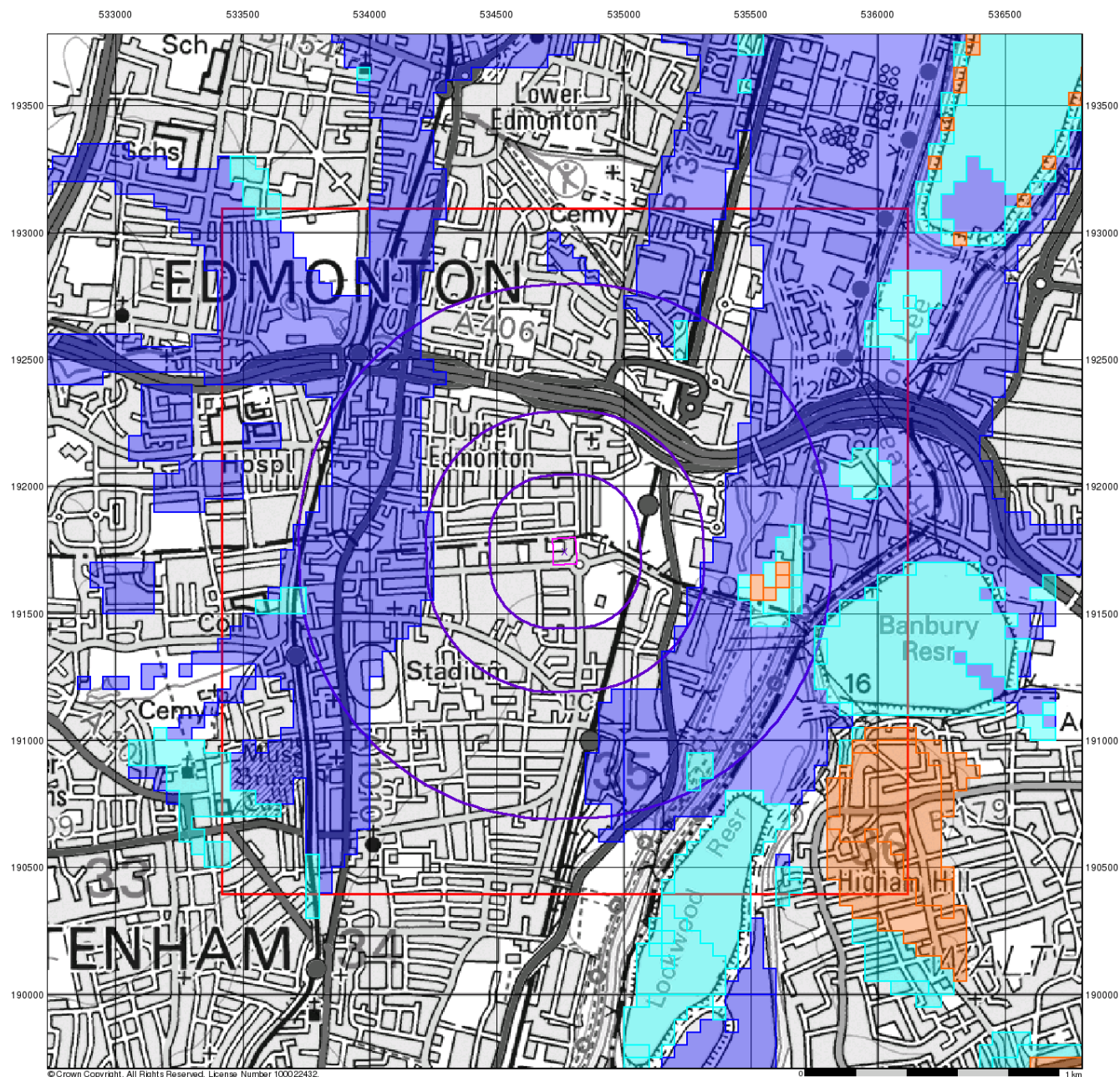
Order Number: 282662955_1_1
 Customer Ref: 63282
 National Grid Reference: 534770, 191740
 Slice: A
 Site Area (Ha): 0.96
 Search Buffer (m): 1000

Site Details

Site at 534770, 191740

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BGS Flood Data (1:50,000)

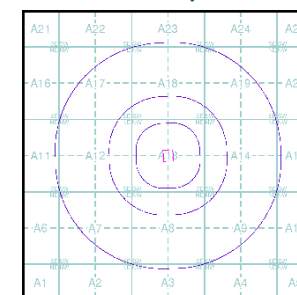
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

BGS Groundwater Flooding Susceptibility

- Potential for Groundwater Flooding to Occur at Surface
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Limited Potential for Groundwater Flooding to Occur

BGS Flood Data Map - Slice A



Order Details

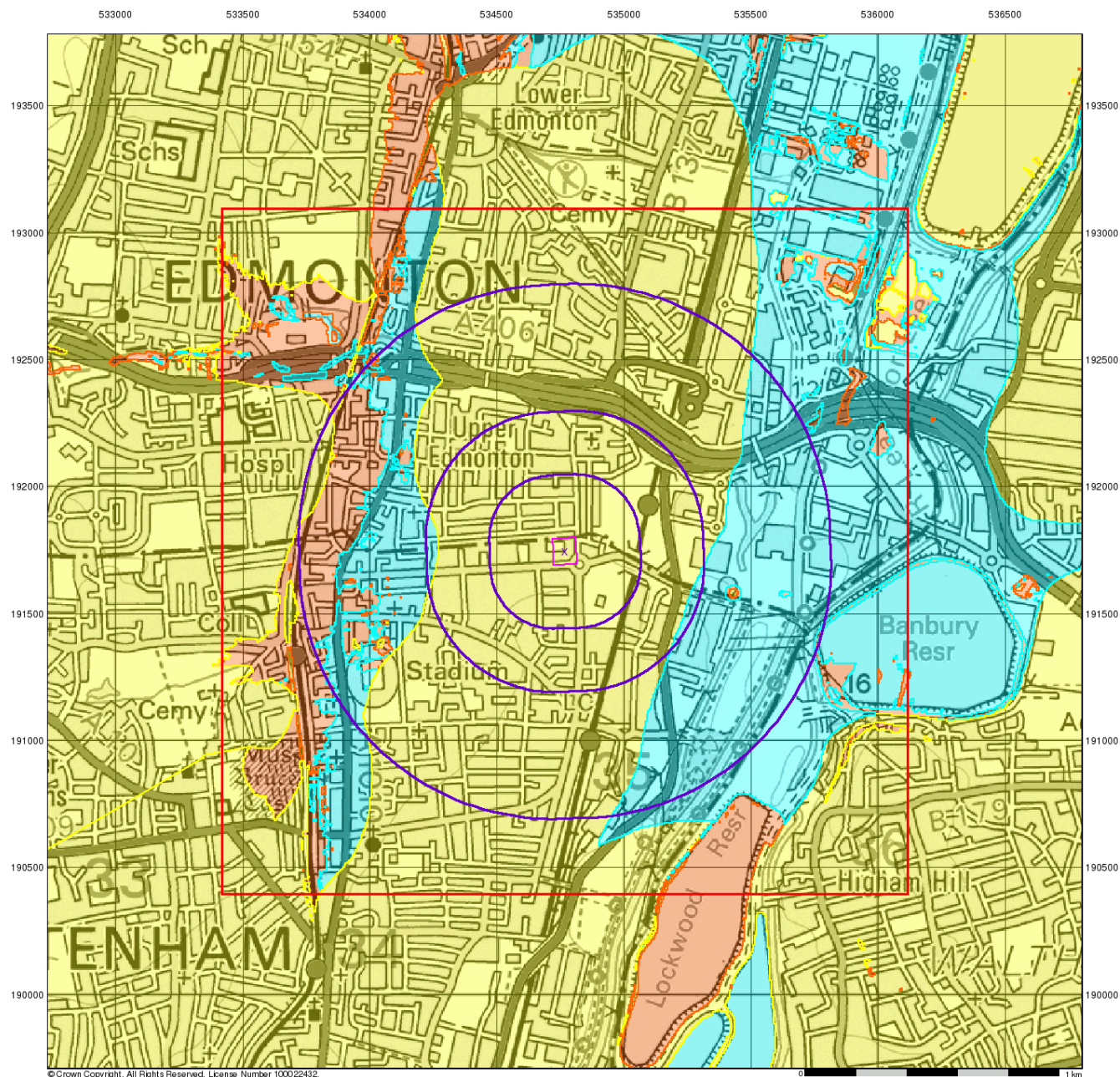
Order Number: 282662955_1_1
 Customer Ref: 63282
 National Grid Reference: 534770, 191740
 Slice: A
 Site Area (Ha): 0.96
 Search Buffer (m): 1000

Site Details

Site at 534770, 191740

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0 1 km



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GeoSmart Information Groundwater Flood Map (1:50,000)

General

Specified Site Specified Buffer(s) Bearing Reference Point

Slice

GeoSmart Information Groundwater Flooding Risk

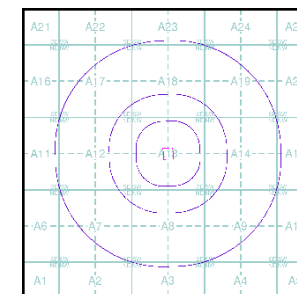
High Risk

Moderate Risk

Low Risk

Negligible Risk

GeoSmart Information Groundwater Flood Map - Slice A



Order Details

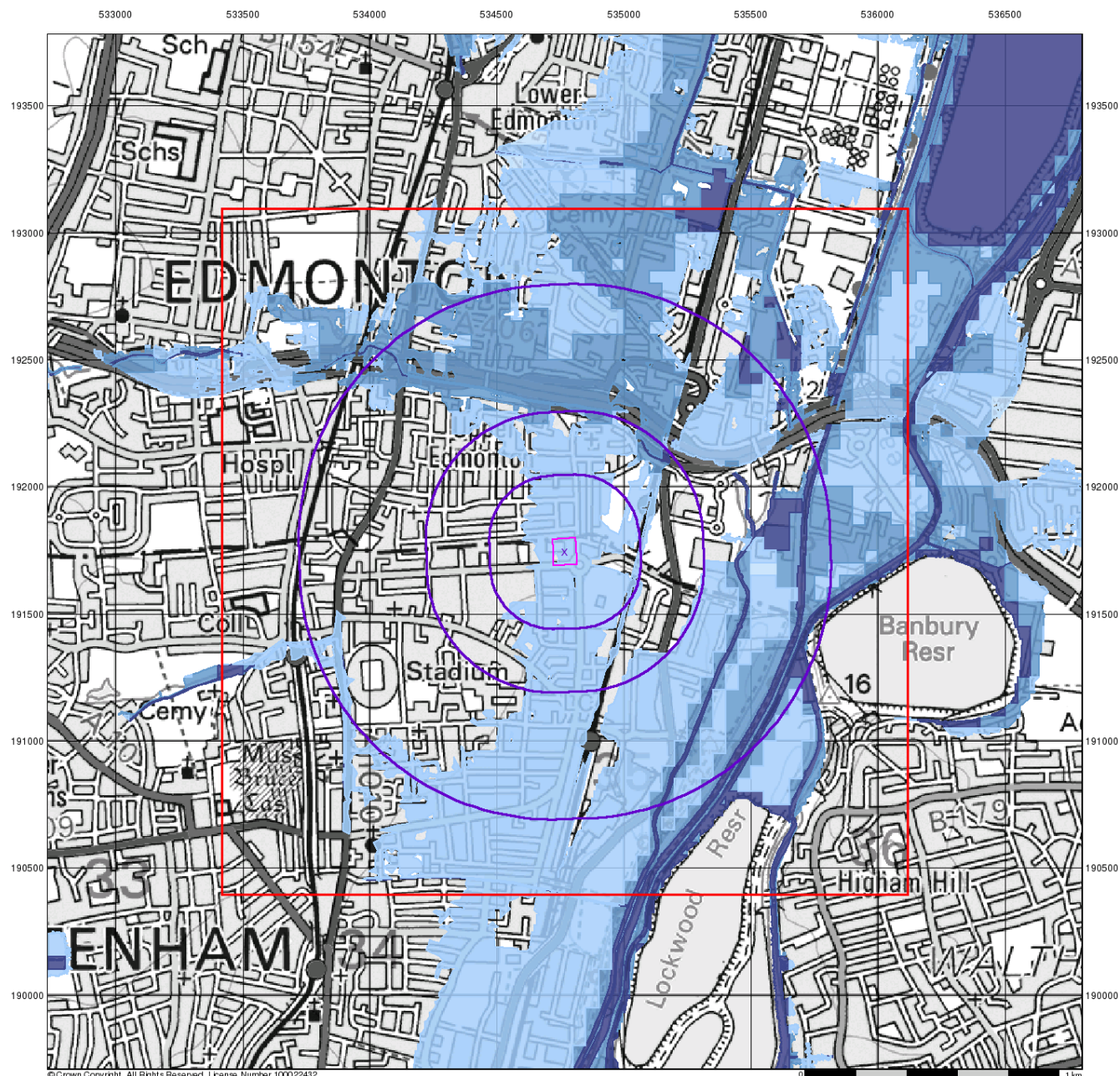
Order Number: 282662955_1_1
Customer Ref: 63282
National Grid Reference: 534770, 191740
Slice: A
Site Area (Ha): 0.96
Search Buffer (m): 1000

Site Details

Site at 534770, 191740

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EA/NRW RoFRS Data (1:50,000)

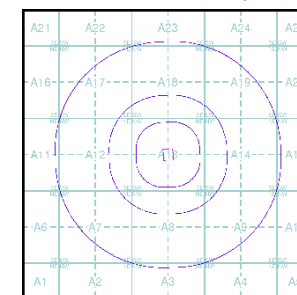
General

- ◇ Specified Site
- Specified Buffer(s)
- x Bearing Reference Point
- Slice
- 8 Map ID

Risk of Flooding from Rivers and Sea (RoFRS)

- High Risk
- Medium Risk
- Low Risk
- Very Low Risk

EA/NRW RoFRS Data Map - Slice A



Order Details

Order Number: 282662955_1_1
 Customer Ref: 63282
 National Grid Reference: 534770, 191740
 Slice: A
 Site Area (Ha): 0.96
 Search Buffer (m): 1000

Site Details

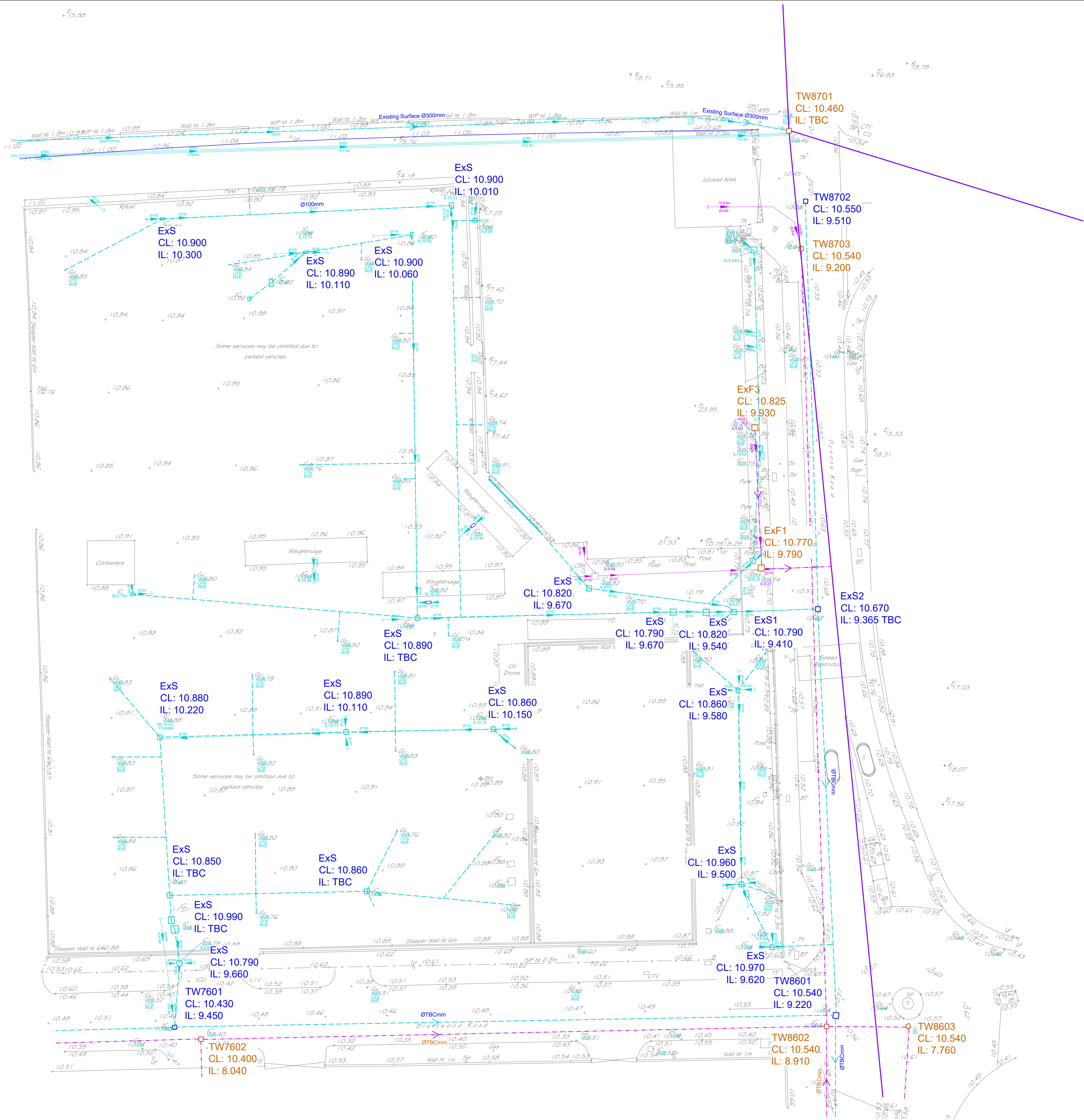
Site at 534770, 191740

Landmark
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 Fax: 0844 844 9951
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APPENDIX VII

DRAINAGE LAYOUTS



- Notes:**
- DO NOT SCALE FROM THIS DRAWING.
 - All dimensions are in millimetres Unless Noted Otherwise (u.n.o.)
 - Drawing is to be read in conjunction with all relevant architect's drawings. Any inconsistencies should be reported to PRP immediately.
 - All levels and dimensions are to be checked on site before any work commences.
 - For more information see PRP drawings: 63282 - 100series - Drainage and External Works
 - The Health and Safety at Work act is to be complied with at all times. Attention is drawn to the wearing of hard hats, safety boots, reflective clothing, and the use of any other required safety equipment.

P1	17/08/2021	Issued for Planning	GF / MAS
Rev	Date	Description	By / Chk



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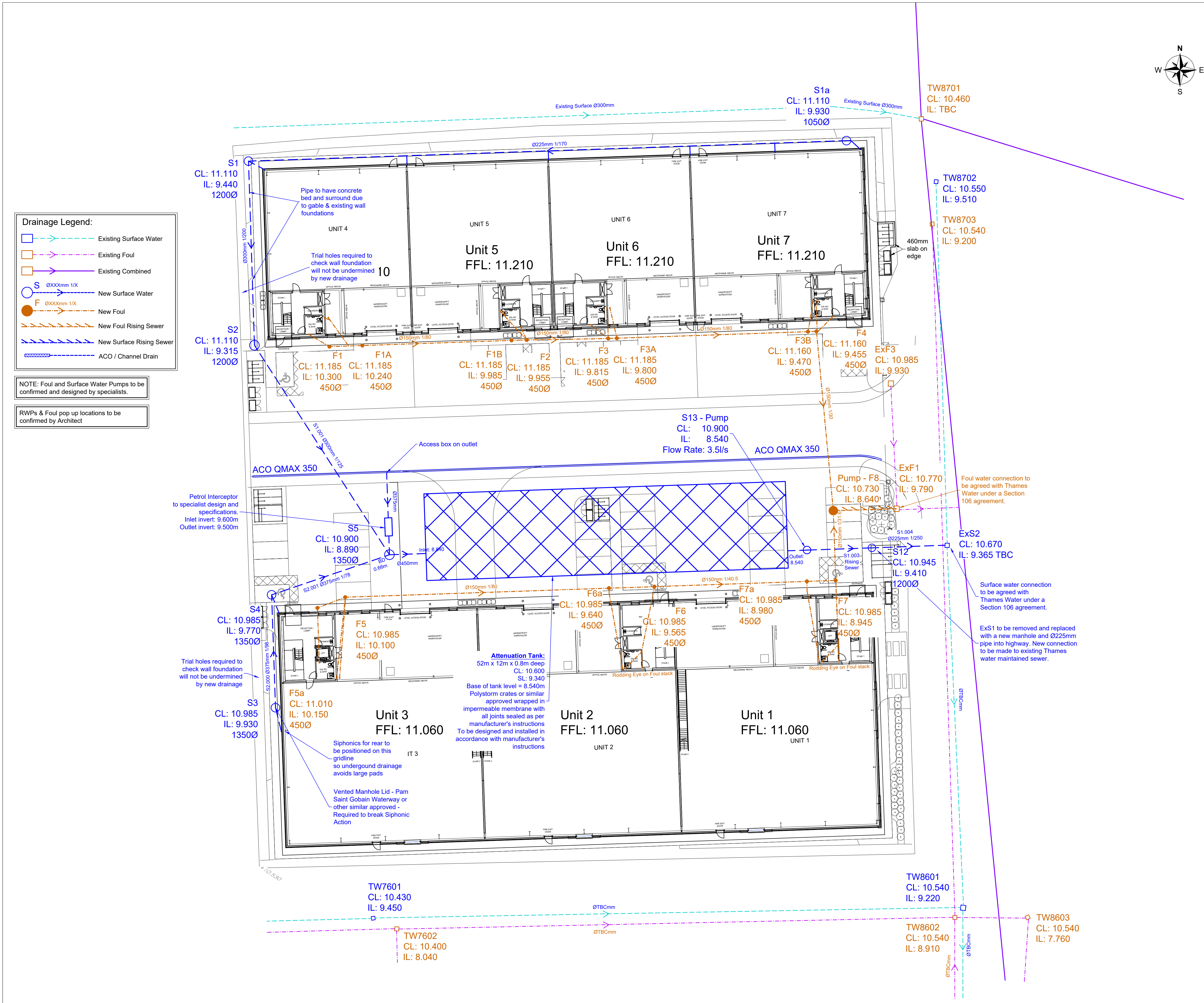
Client:
Paloma Capital

Architect:
MSA Architects

Project:
**Dyson's Road, Edmonton
Tottenham, London**

Title:
**Existing Site
Drainage Layout**

Status:	PLANNING		
Engineer:	GF	Date:	June 2021
Drawn:	GF	Scales @ A1:	
Checked:	HP		1:250
Project No:	63281	Drg No:	001
		Rev:	P1



- Notes:**
- DO NOT SCALE FROM THIS DRAWING.
 - All dimensions are in millimetres Unless Noted Otherwise (u.n.o.)
 - Drawing is to be read in conjunction with all relevant architect's drawings. Any inconsistencies should be reported to PRP immediately.
 - All levels and dimensions are to be checked on site before any work commences.
 - For more information see PRP drawings: 63282 - 100series - Drainage and External Works
 - The Health and Safety at Work act is to be complied with at all times. Attention is drawn to the wearing of hard hats, safety boots, reflective clothing, and the use of any other required safety equipment.

- Drainage:**
- The position, line, level and diameter of all existing drainage apparatus should be confirmed on site prior to the commencement of the works. Any discrepancies should be reported to PRP immediately.
 - The connection of foul and surface water drainage to the existing public sewer system shall be subject to the approval of the water authority
 - For positions of all rainwater pipes & foul outlets refer to Architect's drawings.
 - Drainage designed in accordance with the Sewerage Sector Guidance, Design and Construction Guidance ("the Code") Approved Version 2.0, 10 March 2020.
 - All joints between precast manhole components shall have a minimum uncompressed thickness of 10mm of proprietary bitumen or resin mastic sealant.
 - Storm & foul branch connections are to be laid at gradients of between 1:10 & 1:80
 - All in-situ concrete shall be minimum grade GEN3.
 - Precast concrete cover & reducing slabs to be heavy duty reinforced concrete to BS 5911.
 - Rising mains shall be black MDPE SDR11 as WI 4-32-03 & joints & fittings to be in accordance with WI 4-32-04. Other approved pipe materials to be in accordance with their relevant BS.
 - Manhole covers & frames shall be manufactured in cast iron or ductile iron & shall comply with requirements of BS EN 124 & shall be kite marked or equivalent.
 - All completed work shall be suitably protected from damage by construction work. Damaged drainage will not be accepted. It is recommended that no heavy loading or underground work is permitted above or near unprotected drainage, and that dumpers, trucks, fork lifts or other heavy vehicles are not driven along or near pipe runs.
 - Inspection chambers, soakaways and flow control units are to be installed strictly in accordance with manufacturer guidance and instructions

C1	16/10/2023	Construction Issue - Cover Levels amended	MAS/
T7	02/05/2023	Pump F8 moved to avoid sub-station	DB / MAS
T6	31/03/2023	Tank annotation amended - Additional SW drainage run to rear of Units 4-7	MAS/ HP
T5	31/10/2022	Foul pop ups added and inspection chambers added	MAS/ HP
T4	21/10/2022	Drainage layout revised to suit latest architect layout. Siphonic discharge points relocated to western gables	MAS/ HP
T3	08/09/2022	Discharge Rate Reduced to QBAR - attenuation Tank Size Increased	MAS/ HP
T2	16/03/2022	Layout amended	GF / MAS
T1	16/03/2022	Issued for tender	ST / MAS
Rev	Date	Description	By / Chk



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Client:	Paloma Capital
Architect:	MSA Architects
Project:	Dyson's Road, Edmonton Tottenham, London
Title:	Proposed Drainage Layout

Status:

CONSTRUCTION

Engineer:	GF	Date:	November 2021	
Drawn:	GF	Scales @ A1:		
Checked:	HP		1:250	
Project No:	63282	Drg No:	101	Rev: C1

APPENDIX VIII

DRAINAGE CALCULATIONS

PRP		Page 1
Catherine House Old Harborough Road Brixworth NN6 9BX	63282 - Dyson's Road Edmonton, London Existing SW Model	
Date 28/06/2021 15:35 File 63282 - Existing SW Model - ...	Designed by GF Checked by MS	
Micro Drainage		Network 2020.1.3

Existing Network Details for Existing

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type
E1.000	10.108	0.065	155.5	0.572	5.00	0.0	0.600	o	150	Pipe/Conduit
E2.000	7.566	0.375	20.2	0.083	5.00	0.0	0.600	o	150	Pipe/Conduit
E3.000	7.882	0.210	37.5	0.273	5.00	0.0	0.600	o	150	Pipe/Conduit

Network Results Table

PN	US/IL (m)	I.Area (ha)	Base Flow (l/s)	Vel (m/s)	Cap (l/s)
E1.000	9.410	0.572	0.0	0.80	14.2
E2.000	9.620	0.083	0.0	2.25	39.8
E3.000	9.660	0.273	0.0	1.65	29.1

PRP		Page 2
Catherine House Old Harborough Road Brixworth NN6 9BX		63282 - Dyson's Road Edmonton, London Existing SW Model
Date 28/06/2021 15:35 File 63282 - Existing SW Model - ...		Designed by GF Checked by MS
Micro Drainage		Network 2020.1.3



Manhole Schedules for Existing

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)
E1	10.790	1.380	Open Manhole	1200	E1.000	9.410	150				
E	10.670	1.325	Open Manhole	0		OUTFALL		E1.000	9.345	150	
E2	10.970	1.350	Open Manhole	1200	E2.000	9.620	150				
E	10.570	1.325	Open Manhole	0		OUTFALL		E2.000	9.245	150	
E3	10.790	1.130	Open Manhole	1200	E3.000	9.660	150				
E	10.430	0.980	Open Manhole	0		OUTFALL		E3.000	9.450	150	

MH Name	Manhole Easting (m)	Manhole Northing (m)	Intersection Easting (m)	Intersection Northing (m)	Manhole Access	Layout (North)
E1	534806.510	191738.483	534806.510	191738.483	Required	
E	534816.611	191738.849			No Entry	
E2	534811.222	191697.128	534811.222	191697.128	Required	
E	534818.779	191697.475			No Entry	
E3	534738.123	191695.109	534738.123	191695.109	Required	
E	534737.536	191687.249			No Entry	

PRP		Page 3
Catherine House Old Harborough Road Brixworth NN6 9BX	63282 - Dyson's Road Edmonton, London Existing SW Model	
Date 28/06/2021 15:35	Designed by GF	
File 63282 - Existing SW Model - ...	Checked by MS	
Micro Drainage		Network 2020.1.3

PIPELINE SCHEDULES for Existing

Upstream Manhole

PN	Hyd	Diam	MH	C.Level	I.Level	D.Depth	MH	MH DIAM., L*W
	Sect	(mm)	Name	(m)	(m)	(m)	Connection	(mm)
E1.000	o	150	E1	10.790	9.410	1.230	Open Manhole	1200
E2.000	o	150	E2	10.970	9.620	1.200	Open Manhole	1200
E3.000	o	150	E3	10.790	9.660	0.980	Open Manhole	1200

Downstream Manhole

PN	Length	Slope	MH	C.Level	I.Level	D.Depth	MH	MH DIAM., L*W
	(m)	(1:X)	Name	(m)	(m)	(m)	Connection	(mm)
E1.000	10.108	155.5	E	10.670	9.345	1.175	Open Manhole	0
E2.000	7.566	20.2	E	10.570	9.245	1.175	Open Manhole	0
E3.000	7.882	37.5	E	10.430	9.450	0.830	Open Manhole	0

PRP		Page 4
Catherine House Old Harborough Road Brixworth NN6 9BX	63282 - Dyson's Road Edmonton, London Existing SW Model	
Date 28/06/2021 15:35	Designed by GF	
File 63282 - Existing SW Model - ...	Checked by MS	
Micro Drainage		Network 2020.1.3

Area Summary for Existing

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	User	-	100	0.572	0.572	0.572
2.000	User	-	100	0.083	0.083	0.083
3.000	User	-	100	0.273	0.273	0.273
				Total	Total	Total
				0.927	0.927	0.927

Free Flowing Outfall Details for Existing

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

E1.000	E	10.670	9.345	9.635	0	0
--------	---	--------	-------	-------	---	---

Free Flowing Outfall Details for Existing

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

E2.000	E	10.570	9.245	9.245	0	0
--------	---	--------	-------	-------	---	---

Free Flowing Outfall Details for Existing

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

E3.000	E	10.430	9.450	9.450	0	0
--------	---	--------	-------	-------	---	---

Simulation Criteria for Existing

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Inlet Coefficient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

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

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	20.000	Storm Duration (mins)	30
Ratio R	0.450		

PRP		Page 5
Catherine House Old Harborough Road Brixworth NN6 9BX	63282 - Dyson's Road Edmonton, London Existing SW Model	
Date 28/06/2021 15:35	Designed by GF	
File 63282 - Existing SW Model - ...	Checked by MS	
Micro Drainage		Network 2020.1.3

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

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 2
 Number of Online Controls 0 Number of Storage Structures 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 20.000 Cv (Summer) 0.750
 Region England and Wales Ratio R 0.450 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 25.0 DVD Status ON
 Analysis Timestep Fine Inertia Status ON
 DTS Status OFF

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

									Water Surcharged
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Level (m)
E1.000	E1 60	Summer	1	+0%	1/60 Summer	30/60 Summer			10.025
E2.000	E2 60	Summer	1	+0%					9.667
E3.000	E3 60	Summer	1	+0%	30/60 Summer				9.760

Flooded				Half Drain		Pipe			
PN	US/MH Name	Volume (m³)	Flow / Cap.	Overflow (l/s)	Time (mins)	Flow (l/s)	Status	Level Exceeded	
E1.000	E1	0.000	2.87			36.3	SURCHARGED	4	
E2.000	E2	0.000	0.21			7.2	OK		
E3.000	E3	0.000	0.77			19.4	OK		

PRP		Page 6
Catherine House Old Harborough Road Brixworth NN6 9BX	63282 - Dyson's Road Edmonton, London Existing SW Model	
Date 28/06/2021 15:35	Designed by GF	
File 63282 - Existing SW Model - ...	Checked by MS	
Micro Drainage		Network 2020.1.3

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

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 2
 Number of Online Controls 0 Number of Storage Structures 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 20.000 Cv (Summer) 0.750
 Region England and Wales Ratio R 0.450 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 25.0 DVD Status ON
 Analysis Timestep Fine Inertia Status ON
 DTS Status OFF

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

										Water Surcharged
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Level (m)	Depth (m)
E1.000	E1 60	Winter	30	+0%	1/60 Summer	30/60 Summer			10.809	1.249
E2.000	E2 60	Summer	30	+0%					9.697	-0.073
E3.000	E3 60	Summer	30	+0%	30/60 Summer				10.246	0.436

		<u>Flooded</u>		<u>Half Drain</u>		<u>Pipe</u>			<u>Level</u>
PN	US/MH Name	Volume (m³)	Flow / Cap. (l/s)	Time (mins)	Flow (l/s)	Status			Exceeded
E1.000	E1	19.164	4.51		57.1	FLOOD			4
E2.000	E2	0.000	0.51		17.4	OK			
E3.000	E3	0.000	1.74		44.0	SURCHARGED			

PRP		Page 7
Catherine House Old Harborough Road Brixworth NN6 9BX	63282 - Dyson's Road Edmonton, London Existing SW Model	
Date 28/06/2021 15:35	Designed by GF	
File 63282 - Existing SW Model - ...	Checked by MS	
Micro Drainage		Network 2020.1.3

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

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 2
 Number of Online Controls 0 Number of Storage Structures 0 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 20.000 Cv (Summer) 0.750
 Region England and Wales Ratio R 0.450 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 25.0 DVD Status ON
 Analysis Timestep Fine Inertia Status ON
 DTS Status OFF

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

	US/MH		Return	Climate	First (X)	First (Y)	First (Z)	Overflow	Water	Surcharged
PN	Name	Storm	Period	Change	Surcharge	Flood	Overflow	Act.	Level	Depth
									(m)	(m)
E1.000	E1 60 Winter		100	+0%	1/60 Summer	30/60 Summer			10.838	1.278
E2.000	E2 60 Summer		100	+0%					9.711	-0.059
E3.000	E3 60 Summer		100	+0%	30/60 Summer				10.663	0.853

		Flooded		Half Drain	Pipe		
PN	US/MH	Volume	Flow /	Time	Flow	Status	Level
	Name	(m ³)	Cap.	(l/s)	(mins)	(l/s)	Exceeded
E1.000	E1	48.150	4.56			57.7	FLOOD
E2.000	E2	0.000	0.67			22.9	OK
E3.000	E3	0.000	2.24			56.4	SURCHARGED

PRP		Page 1
Catherine House Old Harborborough Road Brixworth NN6 9BX	63282 Dysons road, Edmonton Greenfield Run-off QBAR URBAN	
Date 16/05/2022 10:44 File	Designed by gareth Checked by	
Micro Drainage	Source Control 2020.1.3	

IH 124 Mean Annual Flood

Input

Return Period (years) 100 SAAR (mm) 612 Urban 0.750
Area (ha) 0.927 Soil 0.450 Region Number Region 6

Results 1/s

QBAR Rural 5.4
QBAR Urban 15.5

Q100 years 31.4

Q1 year 13.2
Q2 years 15.8
Q5 years 20.9
Q10 years 23.6
Q20 years 25.9
Q25 years 26.5
Q30 years 27.0
Q50 years 28.5
Q100 years 31.4
Q200 years 33.8
Q250 years 34.5
Q1000 years 39.5

Warning: It is unusual to use the IH124 method with an area < 50ha. The Interim Code of Practice recommends that the IH124 method is applied with 50ha and the resulting discharge is linearly interpolated for the required area. The ICP SUDS tab will do this automatically.

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
	Designed by: GF	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Storm	Company Address:		



Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
1	Manhole	534721.779	191777.070	10.950	1.020	9.930	Circular	1.200
2	Manhole	534722.332	191765.796	10.950	1.135	9.815	Circular	1.200
5	Manhole	534739.787	191737.530	10.770	1.295	9.475	Circular	1.350
3	Manhole	534724.027	191716.370	10.800	1.000	9.800	Circular	1.200
4	Manhole	534723.492	191731.986	10.800	1.160	9.640	Circular	1.200
12	Manhole	534806.631	191738.483	10.785	1.375	9.410	Circular	1.200
Outfall	Manhole	534816.610	191738.829	10.670	1.305	9.365	Circular	1.200

Name	Access Required	Intersection Easting (m)	Intersection Northing (m)	Lock
1	☒	534721.779	191777.070	None
2	☒	534722.332	191765.796	None
5	☐			None
3	☒	534724.027	191716.370	None
4	☒	534723.492	191731.986	None
12	☒	534806.631	191738.483	None
Outfall	☐			None

Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
1	Inlet	1 - DA 2 - DA 7 - DA 6 - DA	(None)	No Restriction
2	Inlet	S1.000	(None)	No Restriction
5	Inlet (1)	S1.001 S2.001 5 - TAD 1	Pipe	Low/High Flow
	High Bypass Rate (L/s)		100000.0	
	Low Bypass Rate (L/s)		99999.0	
3	Inlet	3 - DA 9 - DA	(None)	No Restriction
4	Inlet	S2.000 4 - DA 10 - DA	(None)	No Restriction
12	Inlet	S1.003	(None)	No Restriction
Outfall	Inlet	S1.004	(None)	No Restriction

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
	Designed by: GF	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Storm	Company Address:		



Outlets			
Junction	Outlet Name	Outgoing Connection	Outlet Type
1	Outlet	S1.000	Free Discharge
2	Outlet	S1.001	Free Discharge
5	Outlet	(None)	Orifice
	Diameter (m)	0.450	
	Coefficient of Discharge	0.600	
	Invert Level (m)	9.475	
3	Outlet	S2.000	Free Discharge
4	Outlet	S2.001	Free Discharge
12	Outlet	S1.004	Free Discharge

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
	Designed by: GF	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Storm	Company Address:		



11

Type : Cellular Storage

Dimensions

Exceedence Level (m)	10.785
Depth (m)	0.800
Base Level (m)	8.940
Number of Crates Long	52
Number of Crates Wide	24
Number of Crates High	2
Porosity (%)	100
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	500.245

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Pipe
Bypass Destination	(None)
Capacity Type	No Restriction

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
	Designed by: GF	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Storm	Company Address:		



Outlets

Outlet

Outgoing Connection	S1.003
Outlet Type	Pump
Invert Level (m)	8.940

Depth (m)	Outflow (L/s)
0.100	3.5
0.200	3.5
0.300	3.5
0.400	3.5
0.500	3.5
0.600	3.5
0.700	3.5
0.800	3.5
0.900	3.5
1.000	3.5
1.100	3.5
1.200	3.5
1.300	3.5
1.400	3.5
1.500	3.5
1.600	3.5
1.700	3.5
1.800	3.5
1.900	3.5
2.000	3.5
2.100	3.5
2.200	3.5
2.300	3.5
2.400	3.5
2.500	3.5
2.600	3.5
2.700	3.5
2.800	3.5
2.900	3.5
3.000	3.5

Pollutant Removals

Name	Background Concentration (mg/L)	Method	Percentage Removal (%)	τ (mins)
Pollutant	0.0	Percentage Removal	0	

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
	Designed by: GF	Checked by:	Approved By:
Report Details: Type: Connections Storm Phase: Storm	Company Address:		



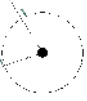
Name	Length (m)	Connection Type	Slope (1:x)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
S1.000	11.288	Pipe	98.157		0.6	375	10.950	9.930
S1.001	33.220	Pipe	97.706		0.6	375	10.950	9.815
S2.000	15.625	Pipe	97.656		0.6	375	10.800	9.800
S2.001	17.213	Pipe	104.321		0.6	375	10.800	9.640
S1.003	9.064	Pipe	-19.286		0.6	375	10.785	8.940
S1.004	9.985	Pipe	221.889		0.6	225	10.785	9.410
Pipe	57.792	Pipe	108.023		0.6	450	10.770	9.475

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Lock	Flow Restriction (L/s)
S1.000	10.950	9.815	All	
S1.001	10.770	9.475	All	
S2.000	10.800	9.640	All	
S2.001	10.770	9.475	All	
S1.003	10.785	9.410	All	3.5
S1.004	10.670	9.365	All	
Pipe	10.785	8.940	None	0.0

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
	Designed by: GF	Checked by:	Approved By:
Report Details: Type: Manhole Schedule Storm Phase: Storm	Company Address:		



Setting Out Information	
Easting Origin (m)	0.000
Northing Origin (m)	0.000
Orientation (Degrees anticlockwise from North)	0

Name	Cover Level (m) Invert Level (m)	Manhole Schematic	Manhole Size (m)	Connection Details				Type		
Coordinates (m)	Depth (m)			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type	Flow Control Type	Flow Control IL (m)
Intersection (m)				Outgoing Connections				Cover		
1	10.950 9.930		Diameter / Length: 1.200					Manhole - Access Required	{a} Free Discharge	
E:534721.778 N:191777.074	1.020									
IP E:534721.778 IP N:191777.074				{a} S1.000	Pipe	9.930	Diam/Width: 375	Not Applicable		
2	10.950 9.815		Diameter / Length: 1.200	{1} S1.000	Pipe	9.815	Diam/Width: 375	Manhole - Access Required	{a} Free Discharge	
E:534722.331 N:191765.800	1.135									
IP E:534722.331 IP N:191765.800				{a} S1.001	Pipe	9.815	Diam/Width: 375	Not Applicable		
5	10.770 9.475		Diameter / Length: 1.350	{1} S1.001	Pipe	9.475	Diam/Width: 375	Manhole		
E:534739.786 N:191737.534	1.295			{2} S2.001	Pipe	9.475	Diam/Width: 375			
IP E:534739.786 IP N:191737.534								Not Applicable		

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc		Date: 12/10/2022		
Report Details: Type: Manhole Schedule Storm Phase: Storm		Designed by: GF	Checked by:	
		Company Address:		

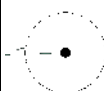
Setting Out Information	
Easting Origin (m)	0.000
Northing Origin (m)	0.000
Orientation (Degrees anticlockwise from North)	0

Name	Cover Level (m) Invert Level (m)	Manhole Schematic	Manhole Size (m)	Connection Details				Type		
Coordinates (m)	Depth (m)			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type	Flow Control Type	Flow Control IL (m)
Intersection (m)				Outgoing Connections				Cover		
3	10.800 9.800		Diameter / Length: 1.200					Manhole - Access Required	{a} Free Discharge	
E:534724.026 N:191716.374	1.000									
IP E:534724.026 IP N:191716.374				{a} S2.000	Pipe	9.800	Diam/Width: 375	Not Applicable		
4	10.800 9.640		Diameter / Length: 1.200	{1} S2.000	Pipe	9.640	Diam/Width: 375	Manhole - Access Required	{a} Free Discharge	
E:534723.490 N:191731.989	1.160									
IP E:534723.490 IP N:191731.989				{a} S2.001	Pipe	9.640	Diam/Width: 375	Not Applicable		
12	10.785 9.410		Diameter / Length: 1.200	{1} S1.003	Pipe	9.410	Diam/Width: 375	Manhole - Access Required	{a} Free Discharge	
E:534806.629 N:191738.487	1.375									
IP E:534806.629 IP N:191738.487				{a} S1.004	Pipe	9.410	Diam/Width: 225	Not Applicable		

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
	Designed by: GF	Checked by:	Approved By:
Report Details: Type: Manhole Schedule Storm Phase: Storm	Company Address:		



Setting Out Information	
Easting Origin (m)	0.000
Northing Origin (m)	0.000
Orientation (Degrees anticlockwise from North)	0

Name	Cover Level (m) Invert Level (m)	Manhole Schematic	Manhole Size (m)	Connection Details				Type		
Coordinates (m)	Depth (m)			Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type	Flow Control Type	Flow Control IL (m)
Intersection (m)				Outgoing Connections				Cover		
Outfall	10.670 9.365		Diameter / Length: 1.200	{1} S1.004	Pipe	9.365	Diam/Width: 225	Manhole		
E:534816.609 N:191738.833	1.305									
IP E:534816.609 IP N:191738.833								Not Applicable		

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
	Designed by: GF	Checked by:	Approved By:
Report Details: Type: Inflow Summary Storm Phase: Storm	Company Address:		



Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
1 - DA	1		Time of Concentration	0.049	100	0	100	0.049
2 - DA	1		Time of Concentration	0.049	100	0	100	0.049
3 - DA	3		Time of Concentration	0.067	100	0	100	0.067
4 - DA	4		Time of Concentration	0.067	100	0	100	0.067
5 - TAD 1	5		Time Area Diagram	0.340	100	0	100	0.340
6 - DA	1		Time of Concentration	0.049	100	0	100	0.049
7 - DA	1		Time of Concentration	0.049	100	0	100	0.049
9 - DA	3		Time of Concentration	0.067	100	0	100	0.067
10 - DA	4		Time of Concentration	0.067	100	0	100	0.067
TOTAL		0.0		0.805				0.805

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
	Designed by: GF	Checked by:	Approved By:
Report Details: Type: Outfall Details Storm Phase: Storm	Company Address:		



Outfalls

Outfall	Outfall Type	Fixed Surcharged Level (m)	Level Curve
5	Free Discharge		
Outfall	Free Discharge		

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
	Designed by: GF	Checked by:	Approved By:
Report Title: Rainfall Analysis Criteria	Company Address:		



Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Shortest
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	0
Perform No Discharge Analysis	☐

Rainfall

SRP Wizard FSR

Type: FSR

Region	England and Wales
M5-60 (mm)	20.0
Ratio R	0.450
Summer	☒
Winter	☒

Return Period

Return Period (years)	Increase Rainfall (%)
1.0	0
30.0	0
100.0	40

Storm Durations

Duration (mins)	Run Time (mins)
15	1440
30	1440

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
	Designed by: GF	Checked by:	Approved By:
Report Title: Rainfall Analysis Criteria	Company Address:		



FEH	Type: FEH
Site Location	GB 534800 191800 TQ 34800 91800
Rainfall Version	2013
Data Type	Catchment
Summer	☒
Winter	☒

Return Period

Return Period (years)	Increase Rainfall (%)
2.0	0
30.0	0
100.0	40

Storm Durations

Duration (mins)	Run Time (mins)
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760
4320	8640
5760	11520
7200	14400
8640	17280
10080	20160

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
	Designed by: GF	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Storm	Company Address:		



SRP Wizard FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
1	SRP Wizard FSR: 1 years: +0 %: 15 mins: Winter	10.950	9.930	10.035	0.105	28.8	0.119	0.000	28.4	13.362	OK
2	SRP Wizard FSR: 1 years: +0 %: 15 mins: Winter	10.950	9.815	9.927	0.112	28.4	0.127	0.000	27.2	13.355	OK
5	SRP Wizard FSR: 1 years: +0 %: 15 mins: Summer	10.770	9.475	9.475	0.000	0.0	0.000	0.000	0.0	0.000	OK
3	SRP Wizard FSR: 1 years: +0 %: 15 mins: Winter	10.800	9.800	9.879	0.079	19.6	0.090	0.000	19.2	9.081	OK
4	SRP Wizard FSR: 1 years: +0 %: 15 mins: Winter	10.800	9.640	9.768	0.128	38.8	0.145	0.000	37.8	18.155	OK
12	SRP Wizard FSR: 1 years: +0 %: 30 mins: Winter	10.785	9.410	9.460	0.050	3.5	0.057	0.000	3.5	69.523	OK
Outfall	SRP Wizard FSR: 1 years: +0 %: 30 mins: Winter	10.670	9.365	9.413	0.048	3.5	0.000	0.000	3.5	69.523	OK

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
	Designed by: GF	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Storm	Company Address:		



SRP Wizard FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
1	SRP Wizard FSR: 30 years: +0 %: 15 mins: Winter	10.950	9.930	10.109	0.179	70.8	0.202	0.000	69.9	32.781	OK
2	SRP Wizard FSR: 30 years: +0 %: 15 mins: Winter	10.950	9.815	9.993	0.178	69.9	0.202	0.000	67.8	32.770	OK
5	SRP Wizard FSR: 30 years: +0 %: 15 mins: Summer	10.770	9.475	9.475	0.000	0.0	0.000	0.000	0.0	0.000	OK
3	SRP Wizard FSR: 30 years: +0 %: 15 mins: Winter	10.800	9.800	9.938	0.138	48.2	0.156	0.000	47.3	22.288	OK
4	SRP Wizard FSR: 30 years: +0 %: 15 mins: Winter	10.800	9.640	9.842	0.202	95.5	0.228	0.000	93.6	44.566	OK
12	SRP Wizard FSR: 30 years: +0 %: 15 mins: Summer	10.785	9.410	9.460	0.050	3.5	0.057	0.000	3.5	118.662	OK
Outfall	SRP Wizard FSR: 30 years: +0 %: 15 mins: Summer	10.670	9.365	9.413	0.048	3.5	0.000	0.000	3.5	118.662	OK

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
	Designed by: GF	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Storm	Company Address:		



SRP Wizard FSR: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
1	SRP Wizard FSR: 100 years: +40 %: 15 mins: Winter	10.950	9.930	10.195	0.265	128.9	0.300	0.000	127.4	59.651	OK
2	SRP Wizard FSR: 100 years: +40 %: 15 mins: Winter	10.950	9.815	10.064	0.249	127.4	0.282	0.000	124.1	59.637	OK
5	SRP Wizard FSR: 100 years: +40 %: 15 mins: Summer	10.770	9.475	9.475	0.000	0.0	0.000	0.000	0.0	0.000	OK
3	SRP Wizard FSR: 100 years: +40 %: 15 mins: Winter	10.800	9.800	10.007	0.207	87.6	0.234	0.000	86.1	40.541	OK
4	SRP Wizard FSR: 100 years: +40 %: 15 mins: Winter	10.800	9.640	9.924	0.284	173.8	0.321	0.000	170.7	81.070	OK
12	SRP Wizard FSR: 100 years: +40 %: 30 mins: Summer	10.785	9.410	9.460	0.050	3.5	0.057	0.000	3.5	263.495	OK
Outfall	SRP Wizard FSR: 100 years: +40 %: 15 mins: Summer	10.670	9.365	9.413	0.048	3.5	0.000	0.000	3.5	211.358	OK

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
	Designed by: GF	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Storm	Company Address:		



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
1	FEH: 2 years: +0 %: 60 mins: Summer	10.95 0	9.930	10.00 6	0.076	16.2	0.086	0.000	16.2	20.211	OK
2	FEH: 2 years: +0 %: 60 mins: Summer	10.95 0	9.815	9.902	0.087	16.2	0.098	0.000	16.2	20.207	OK
5	FEH: 2 years: +0 %: 60 mins: Summer	10.77 0	9.475	9.475	0.000	0.0	0.000	0.000	0.0	0.000	OK
3	FEH: 2 years: +0 %: 60 mins: Summer	10.80 0	9.800	9.859	0.059	11.0	0.066	0.000	11.0	13.730	OK
4	FEH: 2 years: +0 %: 60 mins: Summer	10.80 0	9.640	9.738	0.098	22.0	0.111	0.000	22.0	27.455	OK
12	FEH: 2 years: +0 %: 2880 mins: Summer	10.78 5	9.410	9.460	0.050	3.5	0.057	0.000	3.5	258.111	OK
Outfall	FEH: 2 years: +0 %: 720 mins: Summer	10.67 0	9.365	9.413	0.048	3.5	0.000	0.000	3.5	199.148	OK

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
	Designed by: GF	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Storm	Company Address:		



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
1	FEH: 30 years: +0 %: 60 mins: Summer	10.950	9.930	10.060	0.130	41.3	0.147	0.000	41.3	51.653	OK
2	FEH: 30 years: +0 %: 60 mins: Summer	10.950	9.815	9.953	0.138	41.3	0.156	0.000	41.3	51.647	OK
5	FEH: 30 years: +0 %: 60 mins: Summer	10.770	9.475	9.475	0.000	0.0	0.000	0.000	0.0	0.000	OK
3	FEH: 30 years: +0 %: 60 mins: Summer	10.800	9.800	9.899	0.099	28.1	0.112	0.000	28.1	35.102	OK
4	FEH: 30 years: +0 %: 60 mins: Summer	10.800	9.640	9.795	0.155	56.2	0.175	0.000	56.2	70.199	OK
12	FEH: 30 years: +0 %: 60 mins: Summer	10.785	9.410	9.460	0.050	3.5	0.057	0.000	3.5	20.698	OK
Outfall	FEH: 30 years: +0 %: 60 mins: Summer	10.670	9.365	9.413	0.048	3.5	0.000	0.000	3.5	20.698	OK

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
	Designed by: GF	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Storm	Company Address:		



FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
1	FEH: 100 years: +40 %: 60 mins: Summer	10.950	9.930	10.119	0.189	77.2	0.214	0.000	77.2	96.534	OK
2	FEH: 100 years: +40 %: 60 mins: Summer	10.950	9.815	10.005	0.190	77.2	0.215	0.000	77.2	96.527	OK
5	FEH: 100 years: +40 %: 60 mins: Summer	10.770	9.475	9.475	0.000	0.0	0.000	0.000	0.0	0.000	OK
3	FEH: 100 years: +40 %: 60 mins: Summer	10.800	9.800	9.946	0.146	52.5	0.165	0.000	52.5	65.619	OK
4	FEH: 100 years: +40 %: 60 mins: Summer	10.800	9.640	9.853	0.213	105.0	0.241	0.000	105.0	131.231	OK
12	FEH: 100 years: +40 %: 180 mins: Summer	10.785	9.410	9.460	0.050	3.5	0.057	0.000	3.5	68.956	OK
Outfall	FEH: 100 years: +40 %: 180 mins: Summer	10.670	9.365	9.413	0.048	3.5	0.000	0.000	3.5	68.956	OK

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
	Designed by: GF	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Storm	Company Address:		





SRP Wizard FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.000	SRP Wizard FSR: 1 years: +0 %: 15 mins: Winter	Pipe	1	2	11.0	10.035	0.109	13.362	1.1	0.14	28.4	OK
S1.001	SRP Wizard FSR: 1 years: +0 %: 15 mins: Winter	Pipe	2	5	11.0	9.927	0.056	13.355	2.6	0.13	27.2	OK
S2.000	SRP Wizard FSR: 1 years: +0 %: 15 mins: Winter	Pipe	3	4	10.8	9.879	0.103	9.081	0.8	0.09	19.2	OK
S2.001	SRP Wizard FSR: 1 years: +0 %: 15 mins: Winter	Pipe	4	5	10.8	9.768	0.064	18.155	3.0	0.19	37.8	OK
S1.003	SRP Wizard FSR: 1 years: +0 %: 30 mins: Winter	Pipe	11	12	10.8	9.045	0.020	69.529	0.0	0.04	3.5	OK
S1.004	SRP Wizard FSR: 1 years: +0 %: 30 mins: Winter	Pipe	12	Outfall	10.8	9.460	0.049	69.523	0.5	0.1	3.5	OK
Pipe	SRP Wizard FSR: 1 years: +0 %: 15 mins: Winter	Pipe	5	11			0.117	54.749	3.0	0.31	97.9	

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Report Details: Type: Connections Summary Storm Phase: Storm	Company Address:		





SRP Wizard FSR: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.000	SRP Wizard FSR: 30 years: +0 %: 15 mins: Winter	Pipe	1	2	11.0	10.109	0.17 ₉	32.781	1.3	0.35	69.9	OK
S1.001	SRP Wizard FSR: 30 years: +0 %: 15 mins: Winter	Pipe	2	5	11.0	9.993	0.08 ₉	32.770	3.4	0.33	67.8	OK
S2.000	SRP Wizard FSR: 30 years: +0 %: 15 mins: Winter	Pipe	3	4	10.8	9.938	0.17 ₀	22.288	1.0	0.23	47.3	OK
S2.001	SRP Wizard FSR: 30 years: +0 %: 15 mins: Winter	Pipe	4	5	10.8	9.842	0.10 ₁	44.566	3.9	0.48	93.6	OK
S1.003	SRP Wizard FSR: 30 years: +0 %: 15 mins: Summer	Pipe	11	12	10.8	9.126	0.02 ₀	118.673	0.0	0.04	3.5	OK
S1.004	SRP Wizard FSR: 30 years: +0 %: 15 mins: Summer	Pipe	12	Outfall	10.8	9.460	0.04 ₉	118.662	0.5	0.1	3.5	OK
Pipe	SRP Wizard FSR: 30 years: +0 %: 15 mins: Winter	Pipe	5	11			0.21 ₂	134.307	3.3	0.78	242. ₉	

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SRP Wizard FSR: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.000	SRP Wizard FSR: 100 years: +40 %: 15 mins: Winter	Pipe	1	2	11.0	10.195	0.257	59.651	1.6	0.63	127.4	OK
S1.001	SRP Wizard FSR: 100 years: +40 %: 15 mins: Winter	Pipe	2	5	11.0	10.064	0.125	59.637	3.9	0.61	124.1	OK
S2.000	SRP Wizard FSR: 100 years: +40 %: 15 mins: Winter	Pipe	3	4	10.8	10.007	0.245	40.541	1.1	0.43	86.1	OK
S2.001	SRP Wizard FSR: 100 years: +40 %: 15 mins: Winter	Pipe	4	5	10.8	9.924	0.142	81.070	4.5	0.87	170.7	OK
S1.003	SRP Wizard FSR: 100 years: +40 %: 15 mins: Summer	Pipe	11	12	10.8	9.282	0.020	211.382	0.0	0.04	3.5	OK
S1.004	SRP Wizard FSR: 100 years: +40 %: 15 mins: Summer	Pipe	12	Outfall	10.8	9.460	0.049	211.358	0.5	0.1	3.5	OK
Pipe	SRP Wizard FSR: 100 years: +40 %: 15 mins: Winter	Pipe	5	11			0.450	243.238	3.2	1.4	436.4	

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc		Date: 12/10/2022		
Report Details: Type: Connections Summary Storm Phase: Storm		Designed by: GF	Checked by:	
		Company Address:		



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.000	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	1	2	11.0	10.006	0.08 ₂	20.211	0.9	0.08	16.2	OK
S1.001	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	2	5	11.0	9.902	0.04 ₃	20.207	2.3	0.08	16.2	OK
S2.000	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	3	4	10.8	9.859	0.07 ₈	13.730	0.7	0.05	11.0	OK
S2.001	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	4	5	10.8	9.738	0.04 ₉	27.455	2.6	0.11	22.0	OK
S1.003	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	11	12	10.8	9.060	0.02 ₀	18.975	0.0	0.04	3.5	OK
S1.004	FEH: 2 years: +0 %: 720 mins: Summer	Pipe	12	Outfall	10.8	9.460	0.04 ₉	199.148	0.5	0.1	3.5	OK
Pipe	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	5	11			0.113	82.668	2.3	0.21	65.8	

63282 - Dyson's Road, Edmonton: FSR 15 & 30 Minute Storms 100 yr + 40cc	Date: 12/10/2022		
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Report Details: Type: Connections Summary Storm Phase: Storm	Company Address:		



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.000	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	1	2	11.0	10.060	0.134	51.653	1.2	0.2	41.3	OK
S1.001	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	2	5	11.0	9.953	0.069	51.647	3.0	0.2	41.3	OK
S2.000	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	3	4	10.8	9.899	0.127	35.102	0.9	0.14	28.1	OK
S2.001	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	4	5	10.8	9.795	0.077	70.199	3.4	0.29	56.2	OK
S1.003	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	11	12	10.8	9.262	0.020	20.787	0.0	0.04	3.5	OK
S1.004	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	12	Outfall	10.8	9.460	0.049	20.698	0.5	0.1	3.5	OK
Pipe	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	5	11			0.218	211.308	2.6	0.54	168.3	

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FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S1.000	FEH: 100 years: +40 %: 60 mins: Summer	Pipe	1	2	11.0	10.119	0.190	96.534	1.4	0.38	77.2	OK
S1.001	FEH: 100 years: +40 %: 60 mins: Summer	Pipe	2	5	11.0	10.005	0.095	96.527	3.5	0.38	77.2	OK
S2.000	FEH: 100 years: +40 %: 60 mins: Summer	Pipe	3	4	10.8	9.946	0.180	65.619	1.0	0.26	52.5	OK
S2.001	FEH: 100 years: +40 %: 60 mins: Summer	Pipe	4	5	10.8	9.853	0.107	131.231	4.1	0.54	105.0	OK
S1.003	FEH: 100 years: +40 %: 60 mins: Summer	Pipe	11	12	10.8	9.552	0.020	21.930	0.0	0.04	3.5	Surcharged
S1.004	FEH: 100 years: +40 %: 180 mins: Summer	Pipe	12	Outfall	10.8	9.460	0.049	68.956	0.5	0.1	3.5	OK
Pipe	FEH: 100 years: +40 %: 60 mins: Summer	Pipe	5	11			0.386	393.604	2.6	1	312.3	

APPENDIX IX

MAINTENANCE & MANAGEMENT SCHEDULE

MAINTENANCE AND ACTION SCHEDULE FOR SURFACE WATER DRAINAGE

Project No: **63282**

For: Dyson's Road, Edmonton

Date: August 2021

Prepared by: PRP
Catherine House
Old Harborough Road
Brixworth
Northampton
NN6 9BX

1. Catchpits, manholes and inspection chambers should be regularly inspected and debris/silt removed, if this is not removed then it is likely to become hard packed requiring considerable effort to remove it. Replacement of the cellular storage units will be necessary if the system becomes blocked with silt. Effective monitoring will give information on changes in infiltration and provide a warning of potential failure in the long term.
2. The following are guidelines for when inspections and treatment should be carried out based on typical commercial units with average usage. The rate of silt and debris accumulation should be monitored and the frequency of inspection may need to be adjusted based on this.

2.1. Monthly:

- Lift Pump chamber cover and inspect to make sure that the outfall and inlet are clear. (Monthly during Autumn and Winter.)
- Inspect silt traps and note rate of sediment accumulation (Monthly during first year, then annually.)

2.2. Annually:

- Inspect all gutters and gullies for sediment and debris and remove as necessary to prevent it from entering into the attenuation tank.
- Any roots that have entered the system should be removed.
- Inspect manholes and silt traps and remove any silt or debris from base and ensure that they are clean.
- Inspect filter drains including inlet and outlet pipework for blockages.
- Check attenuation tanks to ensure emptying is occurring.
- Remove and clean silt traps and clean out catchpits to ensure they operate correctly.

2.3. As required:

- Clean perforated pipework of blockages (usually annually or bi-annually.)

APPENDIX X**GENERAL CONDITIONS**

1. This report has been prepared and written specifically for the client named in the introduction and is exclusively for his/her/their benefit. No reliance may be placed in the contents of this report by any third party except with the express agreement of the original client and the written agreement of PRP. Such written agreement may require the payment of an additional fee.
2. This report has been prepared and written in the context of the proposals for the development of the site as stated by the client and will not be valid in a differing context. Furthermore, new information, improved practices, or legislation may necessitate alteration to the report in whole or in part after its submission. Therefore, with any change in circumstances or after the expiry of one year from the date of this report, it should be referred to us for re-assessment.
3. There may also be special conditions appertaining to the site which were not revealed by the investigation and which will not, therefore, have been taken into account in this report. Any assessments may be subject to amendment in the light of additional information becoming available.
4. Whilst an opinion may be expressed or implied in this report on possible configurations or on the possible presence of features based either visual, verbal or published evidence, this is for guidance only and no liability can be accepted for the accuracy of such opinions.
5. Comments on groundwater conditions will have been based on observations made only at the time of any investigation or published data unless otherwise stated. It should be noted, however, that groundwater levels vary due to seasonal and other effects.
6. This report is not a site categorisation, and hazards could occur which have not been detected.
7. The copyright in this report and other related plans and documents prepared by PRP is owned by them and no such report, plan or document may be reproduced, published or adapted without their written consent. Complete copies of the report may however be made and distributed by the client as an expedient in dealing with matters related to its commission.
8. Where indicated reliance has been placed on data supplied by the environment agency and the strategic flood risk assessment for the area available at the time of writing this report. No liability can be entertained by PRP if this data later proves to be inaccurate or in any way incomplete.