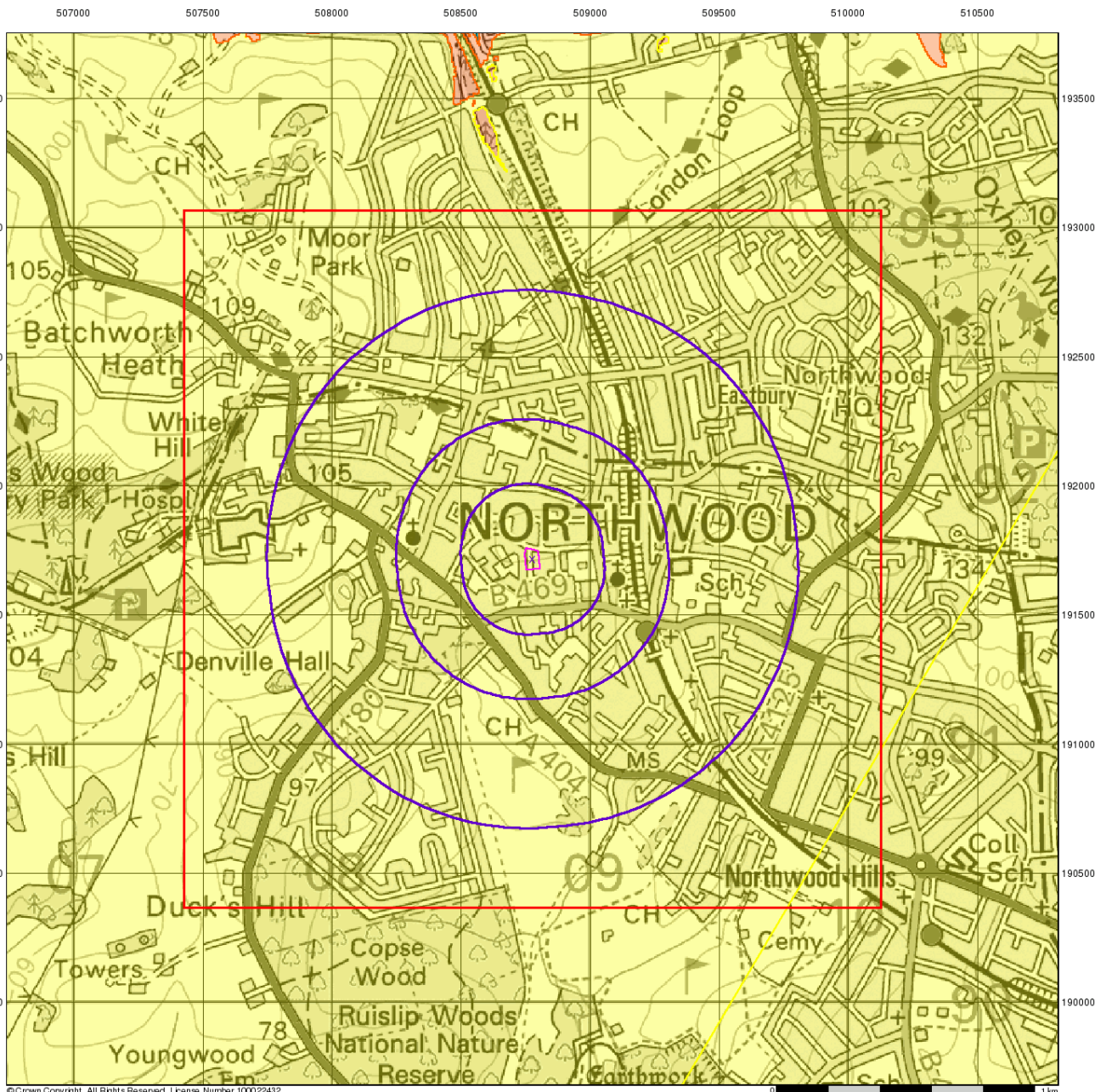




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GeoSmart Information Groundwater Flood Map (1:50,000)

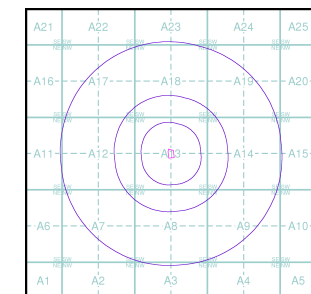
General

- 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

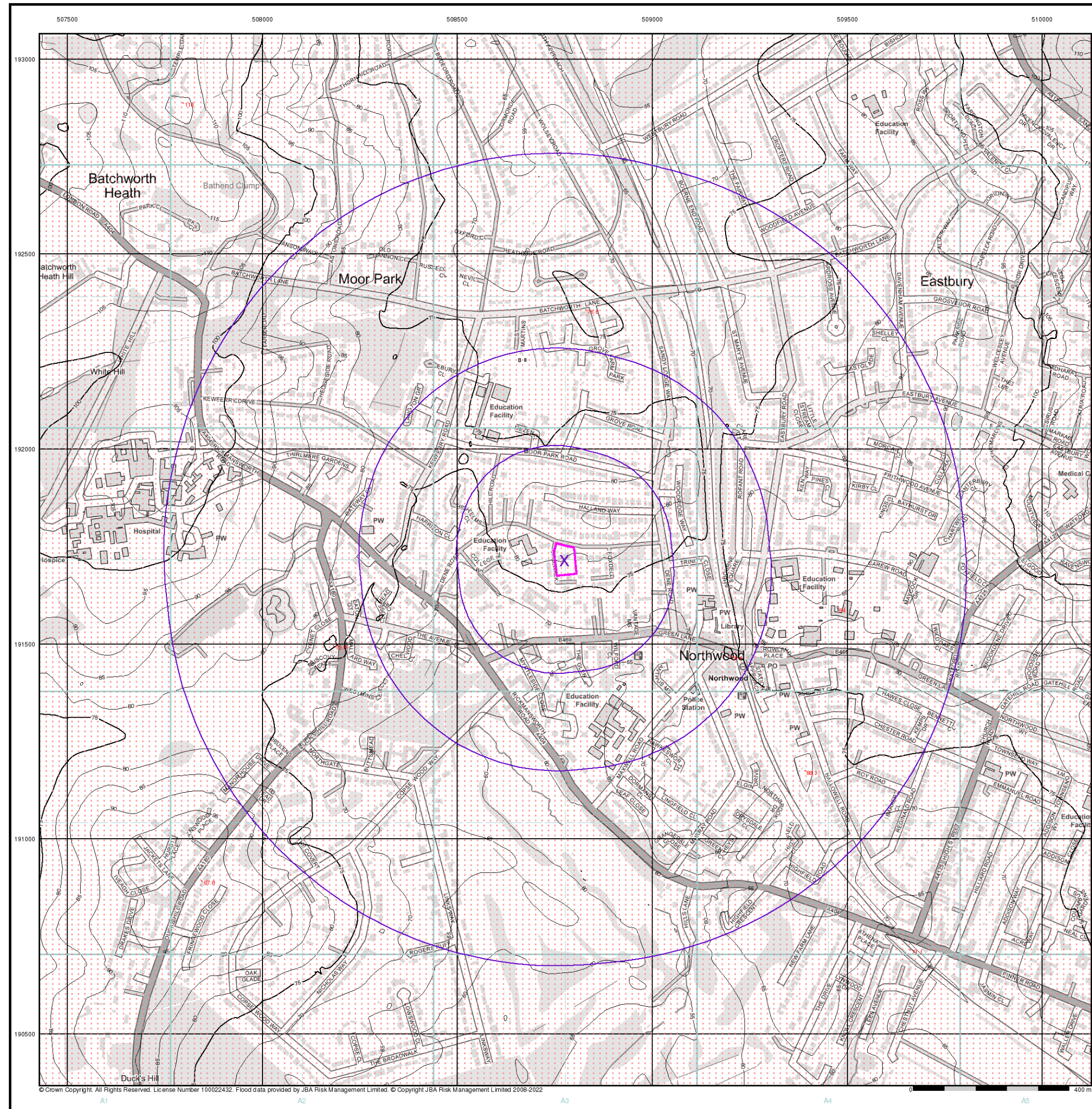
Order Number: 290039613_1_1
 Customer Ref: 797
 National Grid Reference: 508780, 191710
 Slice: A
 Site Area (Ha): 0.39
 Search Buffer (m): 1000

Site Details

Site at 508780, 191710

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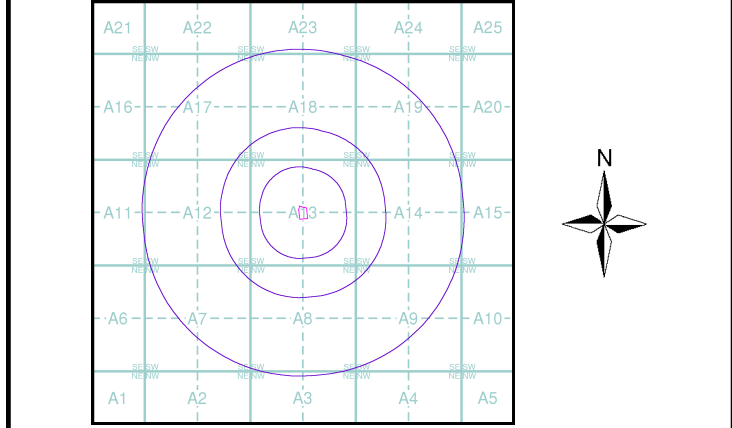
JBA Canal Failure Map (1:10,000)

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

- Flood Data**
- Canal Failure
 - Coverage

- Contours (height in metres)**
- Standard Contour
- Master Contour
- Spot Height
- MLW Mean Low Water
 - MHW Mean High Water

JBA Canal Failure Flood Map - Slice A

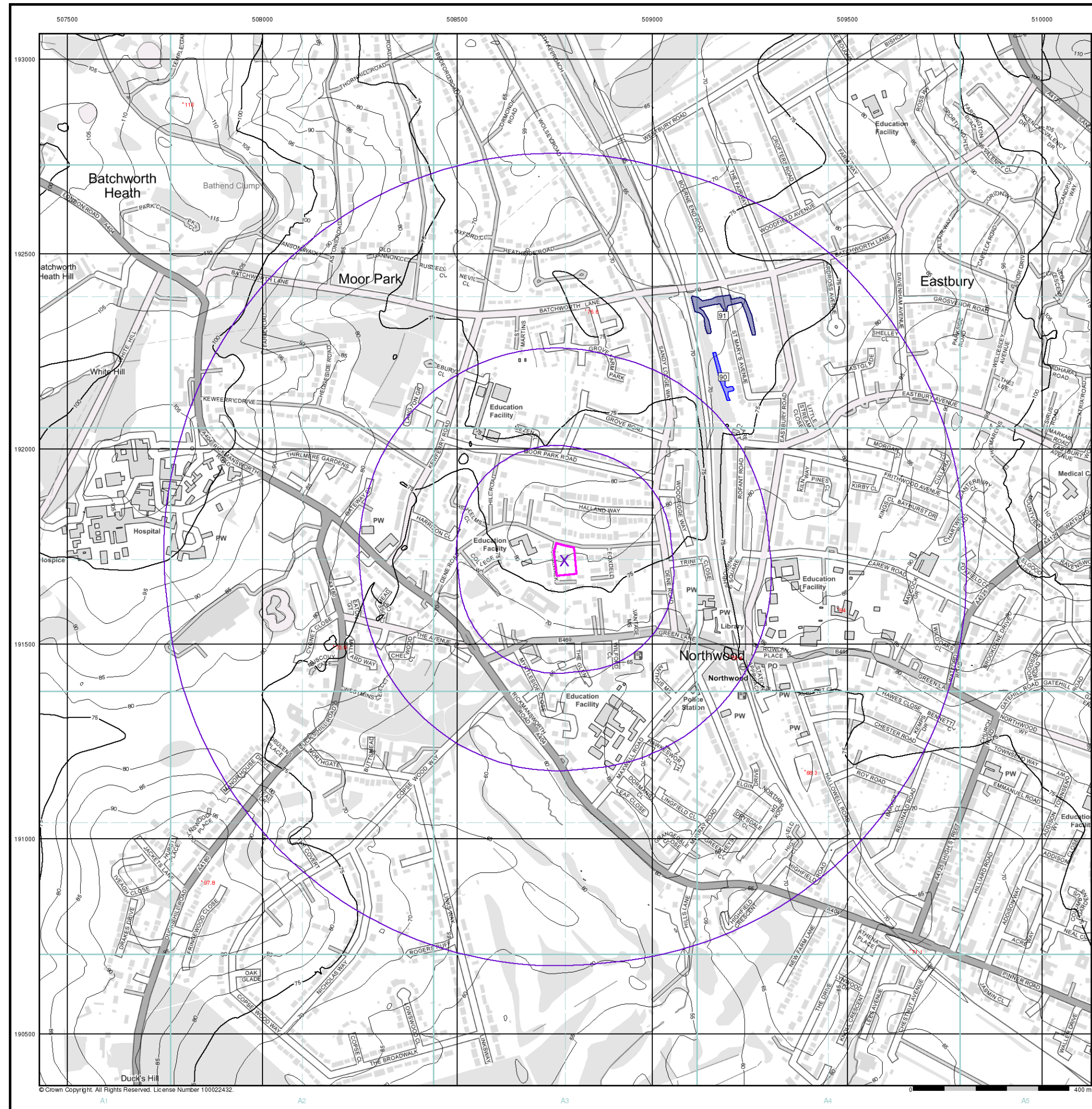


- Order Details**
- Order Number: 290039613_1_1
- Customer Ref: 797
- National Grid Reference: 508780, 191710
- Slice: A
- Site Area (Ha): 0.39
- Search Buffer (m): 1000

- Site Details**
- Site at 508780, 191710

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EA/NRW Historic Flood Map (1:10,000)

General

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

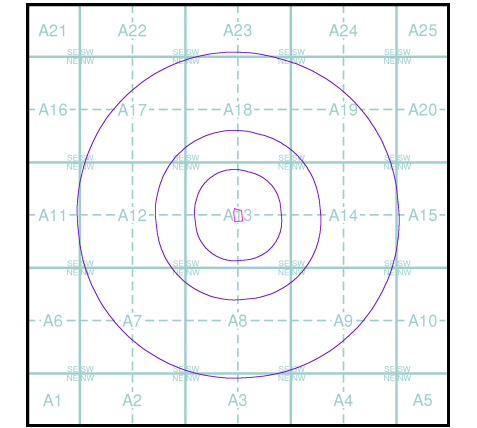
Historic Flood Events Data

- | | |
|--|---------------------------------------|
| 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 Mean Low Water
- Master Contour Mean High Water
- Spot Height

EA/NRW Historic Flood Map - Slice A



Order Details

Order Number: 290039613_1_1
Customer Ref: 797
National Grid Reference: 508780, 191710
Slice: A
Site Area (Ha): 0.39
Search Buffer (m): 1000

Site Details

Site at 508780, 191710

Appendix H
Greenfield Run-Off Rates and Volume Calculations

Flo Consult UK Ltd		Page 1																																										
4 Market Square Old Amersham Buckinghamshire, HP7 0DQ	27 Dene Road Greenfield Run-Off Rate Calculations																																											
Date 20/01/2022 File	Designed by MDS Checked by MDS																																											
Innovyze	Source Control 2018.1.1																																											
IH 124 Mean Annual Flood Input <table><tr><td>Return Period (years)</td><td>1</td><td>Soil</td><td>0.450</td></tr><tr><td>Area (ha)</td><td>50.000</td><td>Urban</td><td>0.320</td></tr><tr><td>SAAR (mm)</td><td>690</td><td>Region Number</td><td>Region 6</td></tr></table> Results1/s <table><tr><td>QBAR Rural</td><td>216.0</td></tr><tr><td>QBAR Urban</td><td>352.0</td></tr><tr><td>Q1 year</td><td>299.2</td></tr><tr><td>Q1 year</td><td>299.2</td></tr><tr><td>Q2 years</td><td>330.6</td></tr><tr><td>Q5 years</td><td>460.5</td></tr><tr><td>Q10 years</td><td>558.1</td></tr><tr><td>Q20 years</td><td>652.2</td></tr><tr><td>Q25 years</td><td>683.0</td></tr><tr><td>Q30 years</td><td>703.5</td></tr><tr><td>Q50 years</td><td>767.9</td></tr><tr><td>Q100 years</td><td>891.0</td></tr><tr><td>Q200 years</td><td>1006.6</td></tr><tr><td>Q250 years</td><td>1042.7</td></tr><tr><td>Q1000 years</td><td>1288.9</td></tr></table>			Return Period (years)	1	Soil	0.450	Area (ha)	50.000	Urban	0.320	SAAR (mm)	690	Region Number	Region 6	QBAR Rural	216.0	QBAR Urban	352.0	Q1 year	299.2	Q1 year	299.2	Q2 years	330.6	Q5 years	460.5	Q10 years	558.1	Q20 years	652.2	Q25 years	683.0	Q30 years	703.5	Q50 years	767.9	Q100 years	891.0	Q200 years	1006.6	Q250 years	1042.7	Q1000 years	1288.9
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Flo Consult UK Ltd		Page 1
4 Market Square Old Amersham Buckinghamshire, HP7 0DQ	27 ene Road Greenfield Run-Off Volume Calculation	
Date 22/01/2022 File	Designed by MDS Checked by MDS	
Innovyze Source Control 2018.1.1		

Greenfield Runoff Volume

FEH Data

Return Period (years)	100
Storm Duration (mins)	360
FEH Rainfall Version	1999
Site Location	GB 508550 191300 TQ 08550 91300
C (1km)	-0.026
D1 (1km)	0.308
D2 (1km)	0.339
D3 (1km)	0.243
E (1km)	0.311
F (1km)	2.501
Areal Reduction Factor	1.00
Area (ha)	113.000
SAAR (mm)	675
CWI	100.500
SPR Host	49.230
URBEXT (USER)	0.3200

Results

Percentage Runoff (%)	52.44
Greenfield Runoff Volume (m ³)	42347.458

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Appendix I
Surface Water Management Layout