



**U M B R E L L A**  
**ENVIRONMENTAL**  
PROTECTING YOUR BUSINESS

## Site Condition Report

Umbrella Environmental  
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**CIWM**

**Affiliated Organisation 2022**

Together, we stand for a world beyond waste

**Site Address:**  
**Rock Solid Processing Limited**  
Bromborough South Dock  
CH62 4RY



**Registered Office:**  
Unit 3 Grampound Road Industrial Units  
The Square  
Grampound Road  
Cornwall  
England  
TR2 4DS

**Application Reference:**  
EPR/HP3444QP  
**Document Reference:**  
016.1\_05\_007  
**Issue Date:**  
20/07/2023

## Document Control

Document Title	Reference	Client	Status
Site Condition Report	016.1_05_007	Rock Solid Processing Limited	FINAL

## Document History

Version	Issue date	Author	Checked	Description
D1	18/11/2022	AIL	AIL	Drafted for bespoke installation application pack, Client review.
V1	30/11/2022	AIL	AIL	Approved by client for submission to Environment Agency (EA).
V2	20/07/2023	AIL	AIL	Following further enhanced pre app advice from the EA further amendments to the activities table to be more reflective of the application.

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Figure 1 Site Location ..... 6

## Drawings

Title	Reference
Permit Boundary	016.1_09_001
Site Plan	100104167-MMD-00-00-DR-AR-1101- Proposed Site Block Plan
Sensitive Receptors 1 km Plan	016.1_09_002
Sensitive Receptors 2 km Plan	016.1_09_003
Sensitive Receptors 10 km Plan	016.1_09_004
Drainage Plan	100104167-MMD-00-00-DR-AR-1101- Proposed Site Block Plan

## Appendices

Appendices	Title
Appendix A	GS-9077523
Appendix B	GS-9077522_smallScale
Appendix C	Historical Plans

## 1 Introduction

This Site Condition Report (SCR) accompanies the application for a bespoke waste installation by Umbrella Environmental Limited on behalf of Rock Solid Processing Limited EPR/HP3444QP at Bromborough South Dock CH62 4RY. The site location is shown in Figure 1 Site Location

Rock Solid are contracted to reprocess the IBA arising from the Energy from Waste (EFW) plant at Protos, Grinsome Road, Chester CH2 4RB, Ince and Dublin Waste to Energy Facility, Pigeon House Road, Dublin 4. Eircode: DO4 N2 P2 . Rock Solid already hold a number of contracts of this type across the UK for the reprocessing of Incinerator Bottom Ash (IBA) to produce IBA aggregate (IBAA) and the recovery of ferrous and non-ferrous metals. The resultant products are suitable for use as recycled aggregates in place of virgin materials in unbound and bound applications. Rock Solid Processing Limited's parent company Rock Solid B.V. also have many years' extensive experience of reprocessing IBA and the production of resultant IBA aggregates in the Netherlands.

This will enable the site to divert waste from landfill, the avoidance of virgin material when a waste/secondary aggregate can be used. This document summarises the land quality and use prior to Rock Solid Processing Limited taking ownership and operating as a waste installation.

Waste that arrives via site from Ireland to dock side is unloaded via bucket loader deposited in to a trailer and is subsequently transported to the site (approx.. 200 m) for sorting and blending meaning the offload/handling of the IBA from the cargo ship onto the trailer is apart of the overall transportation of the ship and the transfer of waste (change of legal ownership) does not happen until it is tipped in the permitted area, All activities waste activities will occur within the permit boundary. Site Location

The site is approximately 40174 m<sup>2</sup> and is located at Bromborough South Dock CH62 4RY.

The National Grid Reference (NGR) is SJ 34947 84720, Eastings and Northings 334947 , 384720 and What Three Words location, ladder.values.thick.

The wider industrial area is accessed by the A 41 and New Chester road located to the west of the site, with the site itself accessed by Dock road. The site is bounded to the north west by the Dibbinsdale Brook and Port Sunlight River Park, while to the north east by Mersey Wharf and the River Mersey. The south east boundary is bounded by warehouses operated by Mersey Wharf. The south west boundary is formed by Dock Road South.

Figure 1 Site Location



## 2 Site details

Name of the applicant	Rock Solid Processing Limited
Activity address	Bromborough South Dock CH62 4RY
National grid reference	SJ 34947 84720
Document reference and dates for Site Condition Report at permit application and surrender	Document Ref: 016.1_05_007 Application Date:30/11/2022

Document references for site plans (including location and boundaries)	Title	Reference
	Permit Boundary	016.1_09_001
	Site Plan	100104167-MMD-00-00-DR-AR-1101- Proposed Site Block Plan
	Sensitive Receptors 1 km Plan	016.1_09_002
	Sensitive Receptors 2 km Plan	016.1_09_003
	Sensitive Receptors 10 km Plan	016.1_09_004
	Drainage Plan	100104167-MMD-00-00-DR-AR-1101- Proposed Site Block Plan



**3 Condition of the land at permit issue**

Environmental setting including:

- geology
- hydrogeology
- surface waters

**Geology**

The geology of the site is 'made ground'. LEX Code: MGR-FILLU.

**Superficial Geology**

Superficial aquifer-Unproductive, these are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

Intertidal deposits- Silt Sandy Clay.

**Bedrock**

Bedrock aquifer-Principal, geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

Chester pebble beds formation-sandstone.

**Hydrogeology**

Unproductive-These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow.

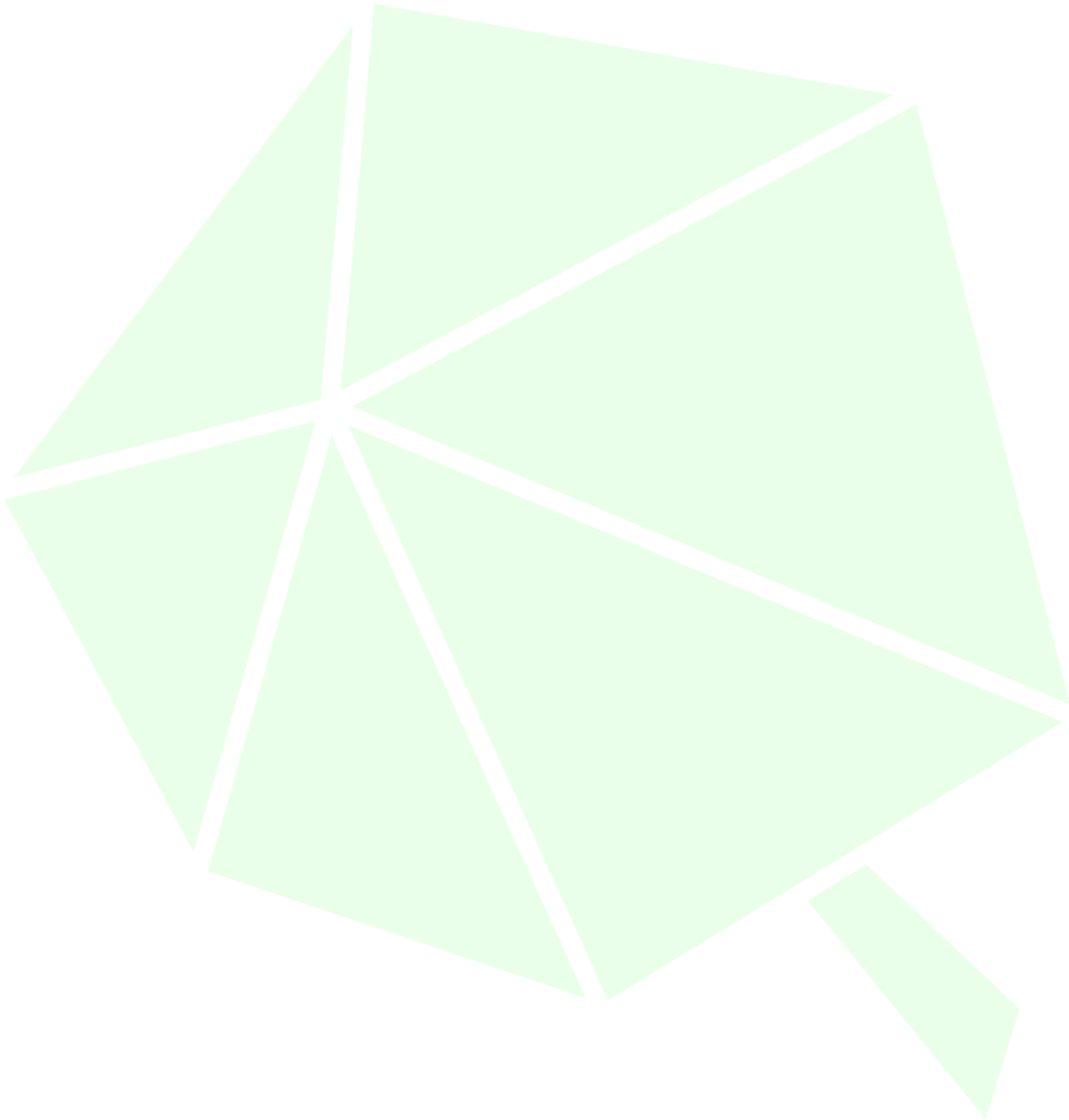
Principal- Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

**Surface waters**

There are 23 surface water features within 250 m of the site see appendix A. Largest being the River Mersey.

	<p><b>Flooding</b></p> <p>The very edges of the site are at a 'LOW' risk of flooding whilst the centre of the site is not under <b>RoFRaS</b>. There are no historical flood events. Flood zone 3.</p> <p>Surface water flooding highest risk on site is 1 in 30 years even 0.3 m – 1.0 m.</p> <p>Groundwater flooding is risk rated as high for a 1 in 100 year event.</p> <p><b>RADON</b></p> <p>Less than a 1 %</p>										
<p>Pollution history including:</p> <p>pollution incidents that may have affected land</p> <p>historical land-uses and associated contaminants</p> <p>any visual/olfactory evidence of existing contamination</p> <p>evidence of damage to pollution prevention measures</p>	<p>Pollution events</p> <table border="1" data-bbox="719 875 1385 1599"> <thead> <tr> <th data-bbox="719 875 775 958">Id</th> <th data-bbox="775 875 895 958">Location</th> <th data-bbox="895 875 1075 958">Address</th> <th data-bbox="1075 875 1235 958">Details</th> <th data-bbox="1235 875 1385 958"></th> </tr> </thead> <tbody> <tr> <td data-bbox="719 958 775 1599">17</td> <td data-bbox="775 958 895 1599">427 m SE</td> <td data-bbox="895 958 1075 1599">Uk waste management ltd, Bromborough dock landfill site, dock road south, bromborough, wirral, merseyside, L62 4SQ</td> <td data-bbox="1075 958 1235 1599">Permission reference: at5011 Local authority: wirral metropolitan borough council First received date: 01/07/2010</td> <td data-bbox="1235 958 1385 1599">Last received date: 01/01/2018 Status: received</td> </tr> </tbody> </table>	Id	Location	Address	Details		17	427 m SE	Uk waste management ltd, Bromborough dock landfill site, dock road south, bromborough, wirral, merseyside, L62 4SQ	Permission reference: at5011 Local authority: wirral metropolitan borough council First received date: 01/07/2010	Last received date: 01/01/2018 Status: received
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<p>Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)</p>	<p>Site is made ground with historical landfill use.</p>										
<p>Baseline soil and groundwater reference data</p>	<p>N/A</p>										

<b>Supporting information</b>	<ul style="list-style-type: none"><li>• Source information identifying environmental setting and pollution incidents</li><li>• Historical Ordnance Survey plans</li><li>• Site reconnaissance</li><li>• Historical investigation / assessment / remediation / verification reports</li><li>• Baseline soil and groundwater reference data</li></ul>
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## 4 Permitted activities

Permitted activities	Site Permitted Activities		
	Schedule 1- Environmental Permitting Regulations		Limits of specified activity and waste types
	Section 5.4 A1 (b) (iii) non-hazardous waste installation – treatment of slags and ashes.	R4: Recycling/reclamation of metals and metal compounds  R5: Recycling/reclamation of other inorganic materials.	From receipt of permitted waste through to treatment and recovery of by-products (incinerator bottom ash aggregate).  Treatment of incinerator bottom ash consisting of crushing, separation and screening shall be carried out in an enclosed building and on an impermeable surface with a sealed drainage.
	Section 5.4 A1 (a) ii Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving physico-chemical treatment	D9 - Physico-chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12	Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving physico-chemical treatment  Treatment of leachate on site prior to discharge to local foul water system under a trade effluent consent.
	Waste Operation		
Blending of IBA and materials to produce an aggregate.	R5: Recycling/reclamation of other inorganic materials.  R3 Recycling/reclamation of organic substances which are not used as solvents (including composting and other	IBAA, Blended with non waste aggregate imported to site to be used under  RPS 247 Using unbound incinerator bottom ash aggregate (IBAA) in construction activities.	

		biological transformation processes)	
	Raw material storage	Storage of raw materials.	Non waste aggregate stored on site in discreet piles in main storage areas.
	Directly Associated Activity		
	Storage and handling of waste	R13: Storage of waste pending the operations numbered R5 (excluding temporary storage, pending collection, on the site where it is produced).	<p>From receipt of waste to dispatch off-site for recovery.</p> <p>Temporary storage of waste.</p> <p>Storage of incinerator bottom ash on impermeable surface with sealed drainage system prior to treatment in enclosed building and externally.</p> <p>Storage of processed incinerator bottom ash aggregate on impermeable surface with sealed drainage system.</p> <p>Storage of ferrous/non-ferrous metals arising from the treatment of incinerator bottom ash, on impermeable surface with sealed drainage system.</p>
Storage of residual waste	<p>R13: Storage of waste pending the operations numbered R5 (excluding temporary storage, pending collection, on the site where it is produced).</p> <p>D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced).</p>	Residual waste to be removed from site.	

	Fuel Storage/chemical Storage	Diesel Hydraulic Oils Lubricating Oils	5000 litres 10 drums up to 205 litre per drum. 10 drums 205 litre per drum.
	Raw material storage	Storage of raw materials.	Non waste aggregate stored on site in discreet piles in main storage areas.
Permitted water abstractions within 500 m for permissions further away see appendix A			
ID	Location	Details	
A	391m SE	Status: Historical Licence No: 2568007012 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT BROMBOROUGH, WIRRAL" Data Type: Point Name: UNICHEMA CHEMICALS LTD Easting: 335180 Northing: 384230	Annual Volume (m3): - Max Daily Volume (m3): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 01/01/1999 Version End Date: -

	A	391m SE	Status: Historical Licence No: 2568007012 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT BROMBOROUGH, WIRRAL Data Type: Point Name: UNICHEMA CHEMICALS LTD Easting: 335180 Northing: 384230	Annual Volume (m3): - Max Daily Volume (m3): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 01/01/1999 Version End Date: -
	A	391m SE	Status: Active Licence No: 2568007012 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT BROMBOROUGH WIRRAL Data Type: Point Name: Victoria Group Holdings Limited Easting: 335180 Northing: 384230	Annual Volume (m3): 3,500,000 Max Daily Volume (m3): 13,638 Original Application No: NPS/WR/016664 Original Start Date: 23/03/1966 Expiry Date: - Issue No: 106 Version Start Date: 20/08/2014 Version End Date: -
	A	427m SE	Status: Historical Licence No: 2568007012 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT BROMBOROUGH, WIRRAL" Data Type: Point Name: UNICHEMA CHEMICALS LTD	Annual Volume (m3): - Max Daily Volume (m3): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 01/01/1999 Version End Date: -

	A	427m SE	Status: Historical Licence No: 2568007012 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT BROMBOROUGH, WIRRAL Data Type: Point Name: UNICHEMA CHEMICALS LTD Easting: 335200 Northing: 384200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 01/01/1999 Version End Date: -
	A	427m SE	Status: Active Licence No: 2568007012 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT BROMBOROUGH WIRRAL Data Type: Point Name: Victoria Group Holdings Limited Easting: 335200 Northing: 384200	Annual Volume (m <sup>3</sup> ): 3,500,000 Max Daily Volume (m <sup>3</sup> ): 13,638 Original Application No: NPS/WR/016664 Original Start Date: 23/03/1966 Expiry Date: - Issue No: 106 Version Start Date: 20/08/2014 Version End Date: -

**Active or Recent Landfills**

ID	Location	Details	
A	On site	Operator: Biffa Waste Services Limited Site Address: Dock Road South, Bromborough, Merseyside, CH62 4SQ	WML Number: 53704 EPR Reference: BIF006 Landfill type: A05: Landfill taking Non-Biodegradable Wastes Status: Closure IPPC Reference: - EPR Number: EA/EPR/GB3103FD/T001
3	9m NW	Operator: Biffa Waste Services Limited Site Address: Bromborough Dock North Landfill, Dock Road South, Bromborough, Merseyside, CH62 4SQ	WML Number: 53554 EPR Reference: BIF008 Landfill type: A01: Co-Disposal Landfill Site Status: Closure IPPC Reference: - EPR Number: EA/EPR/GB3103GY/T001



	13	489m NW	Operator: United Utilities Water Limited Site Address: Bolton Road East, Wirral, Merseyside, CH62 4RU	WML Number: 53982 EPR Reference: NWW013 Landfill type: A05: Landfill taking Non- Biodegradable Wastes Status: Closure IPPC Reference: - EPR Number: EA/EPR/XP3791CG/V003
	2	On site	Site Address: Dibbinsdale Brook / Bromborough Pool, Wirral, Merseyside Licence Holder Address: -	Waste Licence: - Site Reference: GDO M195 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -
	4	20m NW	Site Address: Bromborough Dock and North Reclamation Area, Wirral, Merseyside Licence Holder Address: -	Waste Licence: - Site Reference: 30335/M01, 30335/05, GDO M122, 355/05 Waste Type: Inert, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -
	C	97m SE	Site Address: Graving Dock No.1, South Reclamation Area, West Float, Graving Dock, Merseyside Licence Holder Address: Dock Road, Birkenhead	Waste Licence: - Site Reference: 182/05, GDO 215 Waste Type: Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -
	D	116m NW	Site Address: North Reclamation Area, Bromborough Dock, Wirral, Merseyside Licence Holder Address: Lever	Waste Licence: Yes Site Reference: M096 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -

		House, Port Sunlight, Merseyside	
8	376m W	Site Address: On Par Golf Club, Rear of 34-84 Shore Drive, New Ferry, Merseyside Licence Holder Address: The Sheelings, Rake Lane, Helsby, Cheshire	Waste Licence: Yes Site Reference: 423/05, GDO 233 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 08/12/1992 Licence Surrender: -

**Active and historic permitted waste facilities**

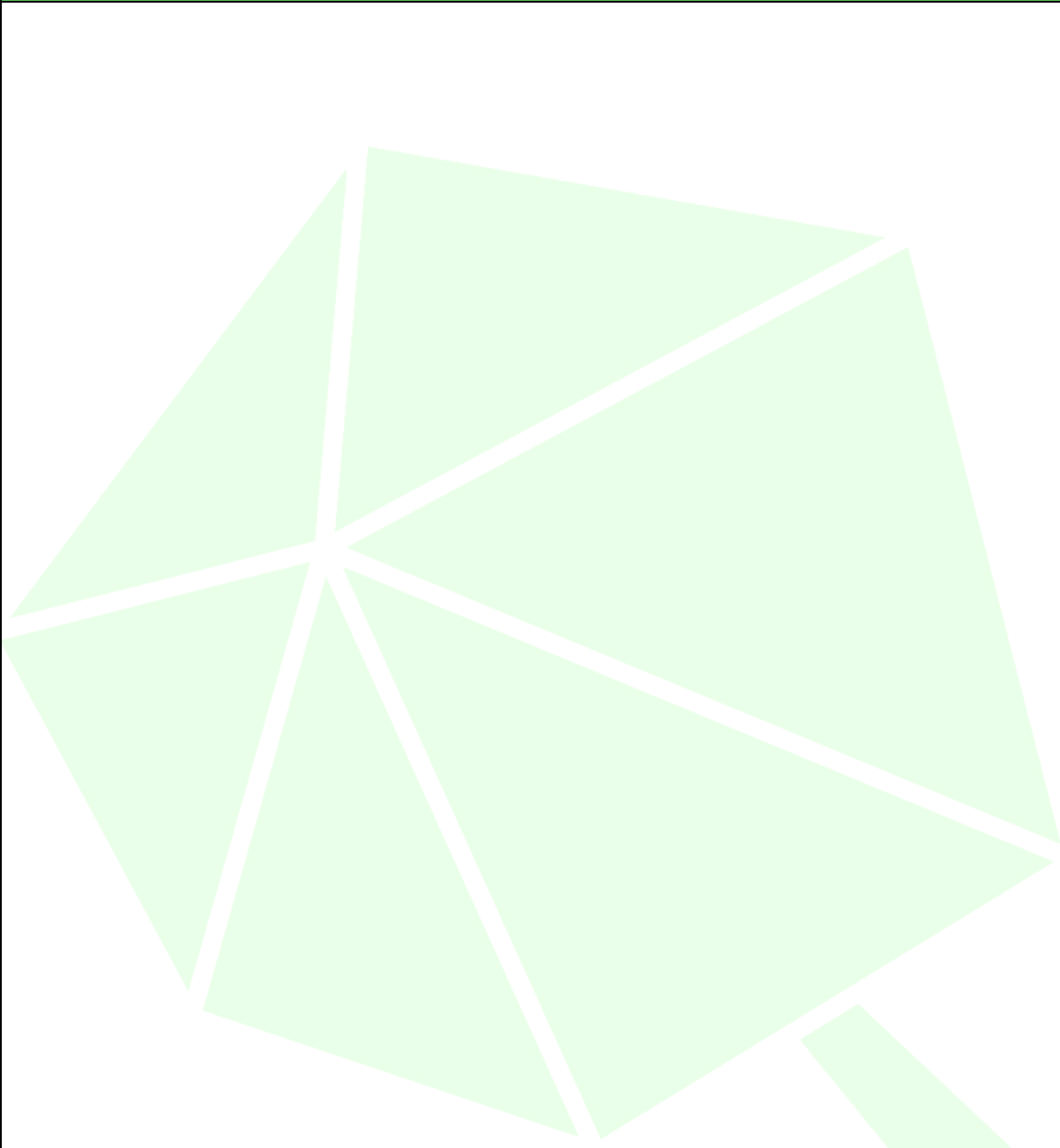
ID	Location	Details	
A	On site	Site Name: South Bromborough Dock Road Inert Landfill Site Address: South Bromborough Dock Road, Off New Chester Road, Bromborough, Wirral Correspondence Address: Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW	Type of Site: Landfill taking Non-Biodegradeable Wastes Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: UKW006 EPR reference: - Operator: Uk Waste Management Ltd Waste Management licence No: 53704 Annual Tonnage: 83333.33 Issue Date: 28/07/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

	A	On site	<p>Site Name: Bromborough Dock South Inert Landfill Site Address: Dock Road South, Bromborough, Wirral Correspondence Address: Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW</p>	<p>Type of Site: Landfill taking Non-Biodegradable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: UKW006 EPR reference: - Operator: Uk Waste Management Ltd Waste Management licence No: 53704 Annual Tonnage: 83333</p>	<p>Issue Date: 28/07/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure</p>
	A	On site	<p>Site Name: Bromborough Dock South Inert Landfill Site Address: Dock Road South, Bromborough, Merseyside, CH62 4SQ Correspondence Address: -</p>	<p>Type of Site: Landfill taking Non-Biodegradable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: UKW006 EPR reference: EA/EPR/UP3596CH/A001 Operator: U K Waste Management Ltd Waste Management licence No: 53704 Annual Tonnage: 83333.33</p>	<p>Issue Date: 28/07/1993 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure</p>
	A	On site	<p>Site Name: Bromborough Dock South Inert Landfill Site Address: Dock Road South, Bromborough, Merseyside, CH62 4SQ Correspondence Address: -</p>	<p>Type of Site: Landfill taking Non-Biodegradable Wastes Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BIF006 EPR reference: EA/EPR/GB3103FD/T001 Operator: Biffa Waste Services Limited Waste Management licence No: 53704 Annual Tonnage: 83333.333</p>	<p>Issue Date: 28/07/1993 Effective Date: 05/06/2018 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure</p>

	A	On site	<p>Site Name: Bromborough Dock South Inert Landfill                  Site Address: Dock Road South, Bromborough, Merseyside, CH62 4SQ                  Correspondence Address: -</p>	<p>Type of Site: Landfill taking Non-Biodegradable Wastes                  Size: &gt;= 75000 tonnes                  Environmental Permitting Regulations (Waste) Licence                  Number: BIF006                  EPR reference: EA/EPR/GB3103FD/T001                  Operator: Biffa Waste Services Limited                  Waste Management licence No: 53704                  Annual Tonnage: 83333</p>	<p>Issue Date: 28/07/1993                  Effective Date: 05/06/2018                  Modified: -                  Surrendered Date: -                  Expiry Date: -                  Cancelled Date: -                  Status: Closure                  Issue Date: 05/06/1992                  Effective Date: -                  Modified: -                  Surrendered Date: -                  Expiry Date: -                  Cancelled Date: -                  Status: Issued</p>
	D	411m NW	<p>Site Name: North Bromborough Dock Road Landfill                  Site Address: North Bromborough Dock Road, Bromborough, Wirral                  Correspondence Address: Rixton Old Hall, Manchester Road, Rixton, Warrington, Cheshire, WA3 6EW</p>	<p>Type of Site: Co-Disposal Landfill Site                  Size: &gt;= 75000 tonnes                  Environmental Permitting Regulations (Waste) Licence                  Number: UKW005                  EPR reference: -                  Operator: U K Waste Management Ltd                  Waste Management licence No: 53554                  Annual Tonnage: 8333.33</p>	<p>Issue Date: -                  Effective Date: -                  Modified: -                  Surrendered Date: -                  Expiry Date: -                  Cancelled Date: -                  Status: Issued</p>
Non-permitted activities undertaken	None.				
Document references for:	<ul style="list-style-type: none"> <li>plan showing activity layout; and</li> <li>environmental risk assessment.</li> </ul> <p>Site Plan: 100104167-MMD-00-00-DR-AR-1101- Proposed Site Block Plan                  Environmental Risk Assessment 016.1_05_003</p>				

<b>5 Changes to the activity</b>	
<b>Have there been any changes to the activity boundary?</b>	
<b>Have there been any changes to the permitted activities?</b>	
<b>Have any 'dangerous substances' not identified in the Application Site Condition Report been used or produced as a result of the permitted activities?</b>	
<b>Checklist supporting information</b>	<div style="display: flex; align-items: flex-start;"> <div style="margin-right: 10px;">of</div> <ul style="list-style-type: none"> <li>Plan showing any changes to the boundary (where relevant)</li> <li>Description of the changes to the permitted activities (where relevant)</li> <li>List of 'dangerous substances' used/produced by the permitted activities that were not identified in the Application Site Condition Report (where relevant)</li> </ul> </div>

## 6 Measures taken to protect land

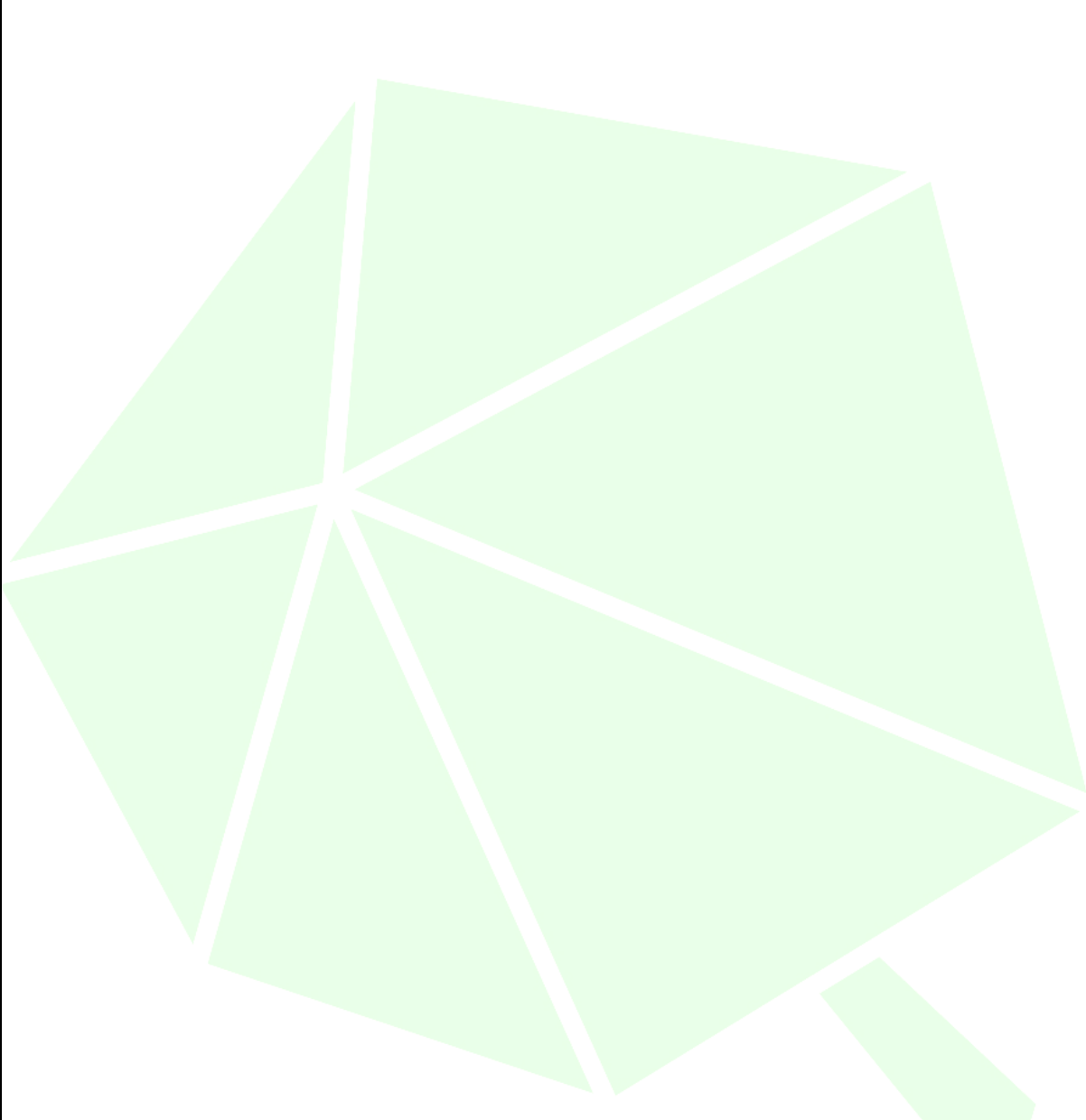


**Checklist supporting information**

of

- Inspection records and summary of findings of inspections for all pollution prevention measures
- Records of maintenance, repair and replacement of pollution prevention measures

## 7 Pollution incidents that may have had an impact on land, and their remediation

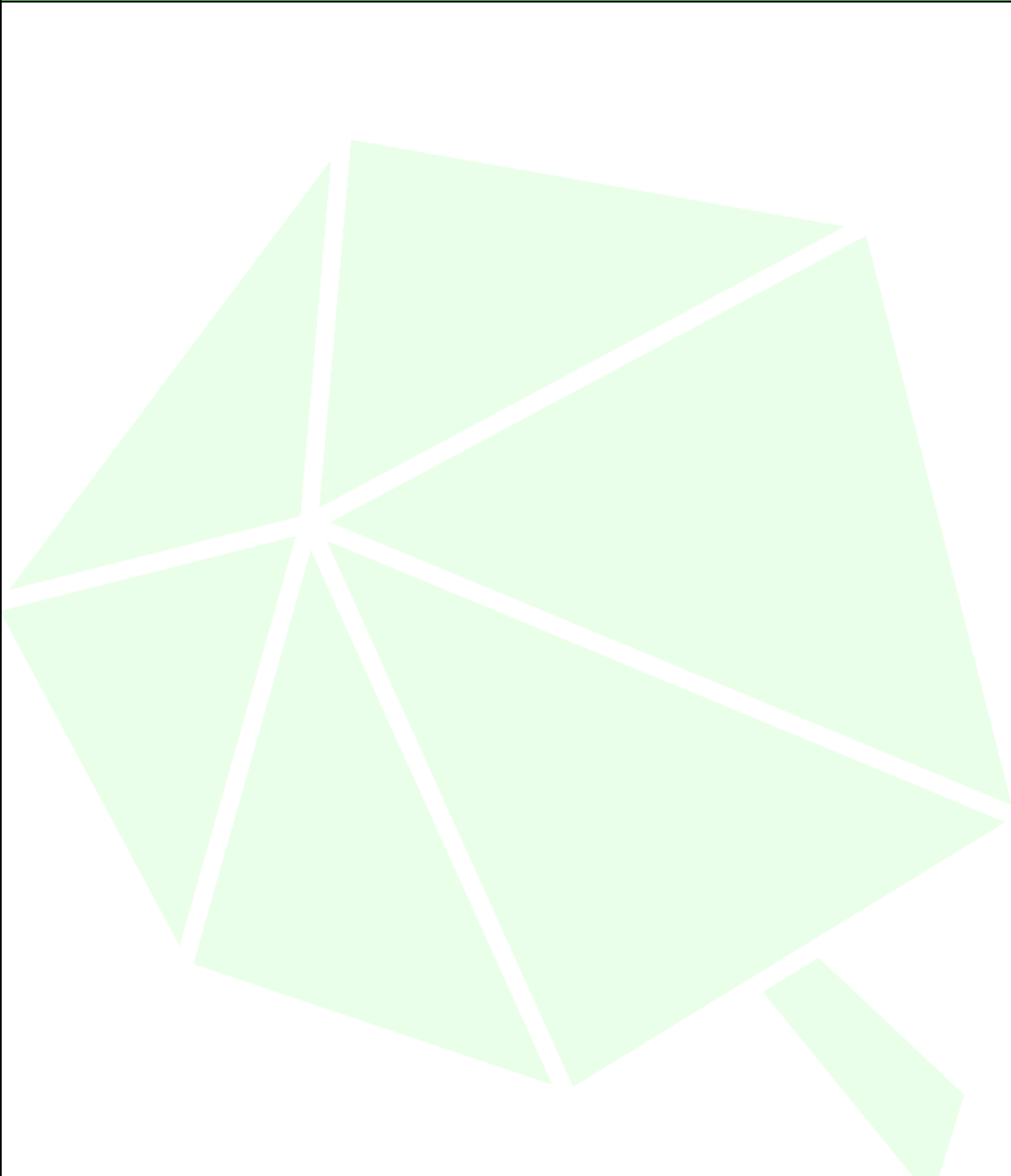


**Checklist supporting information**

of

- Records of pollution incidents that may have impacted on land
- Records of their investigation and remediation

## 8 Soil gas and water quality monitoring (where undertaken)



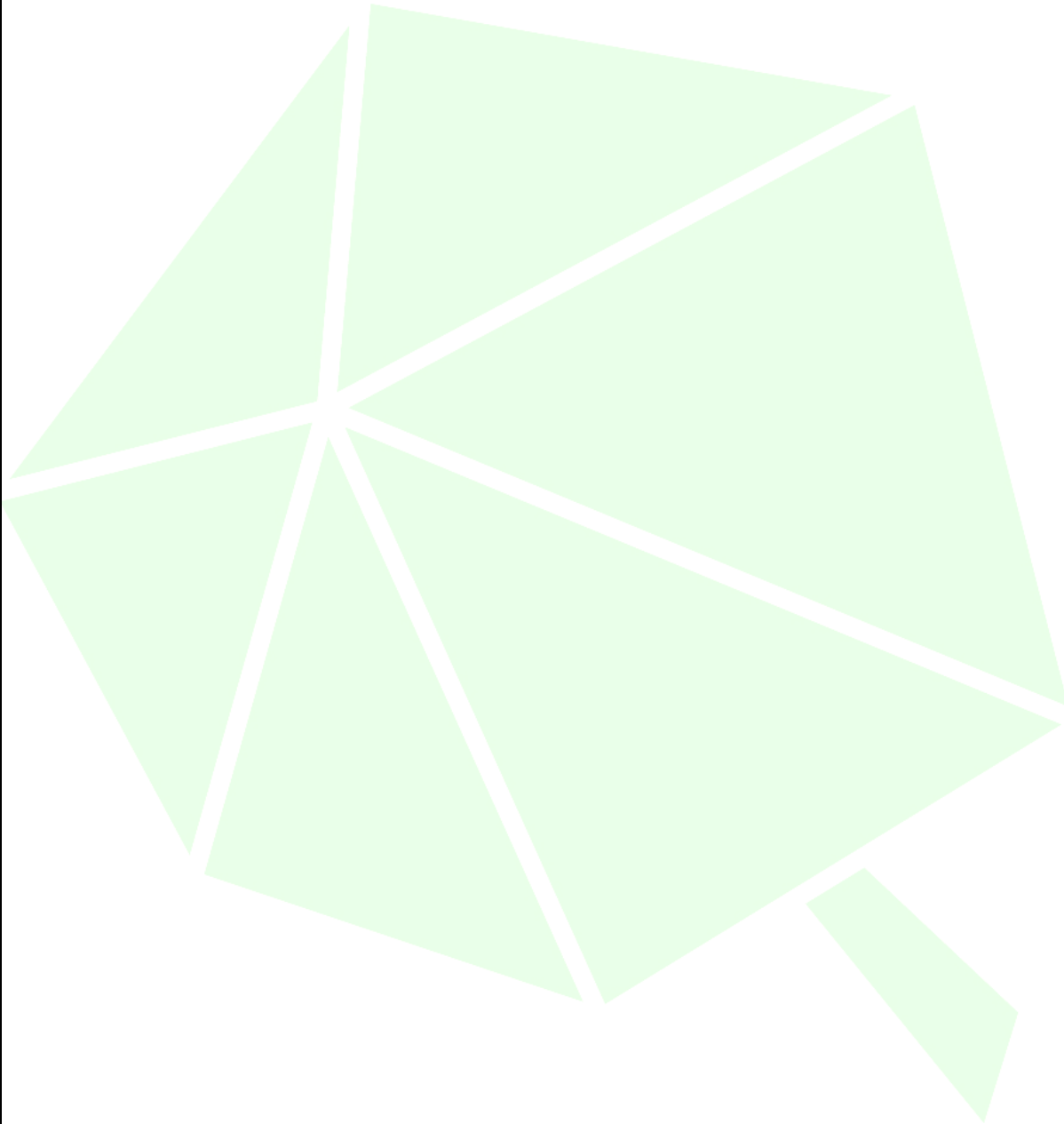
**Checklist  
supporting  
information**

**of**

**Description of soil gas and/or water monitoring undertaken  
Monitoring results (including graphs)**



## 9 Decommissioning and removal of pollution risk

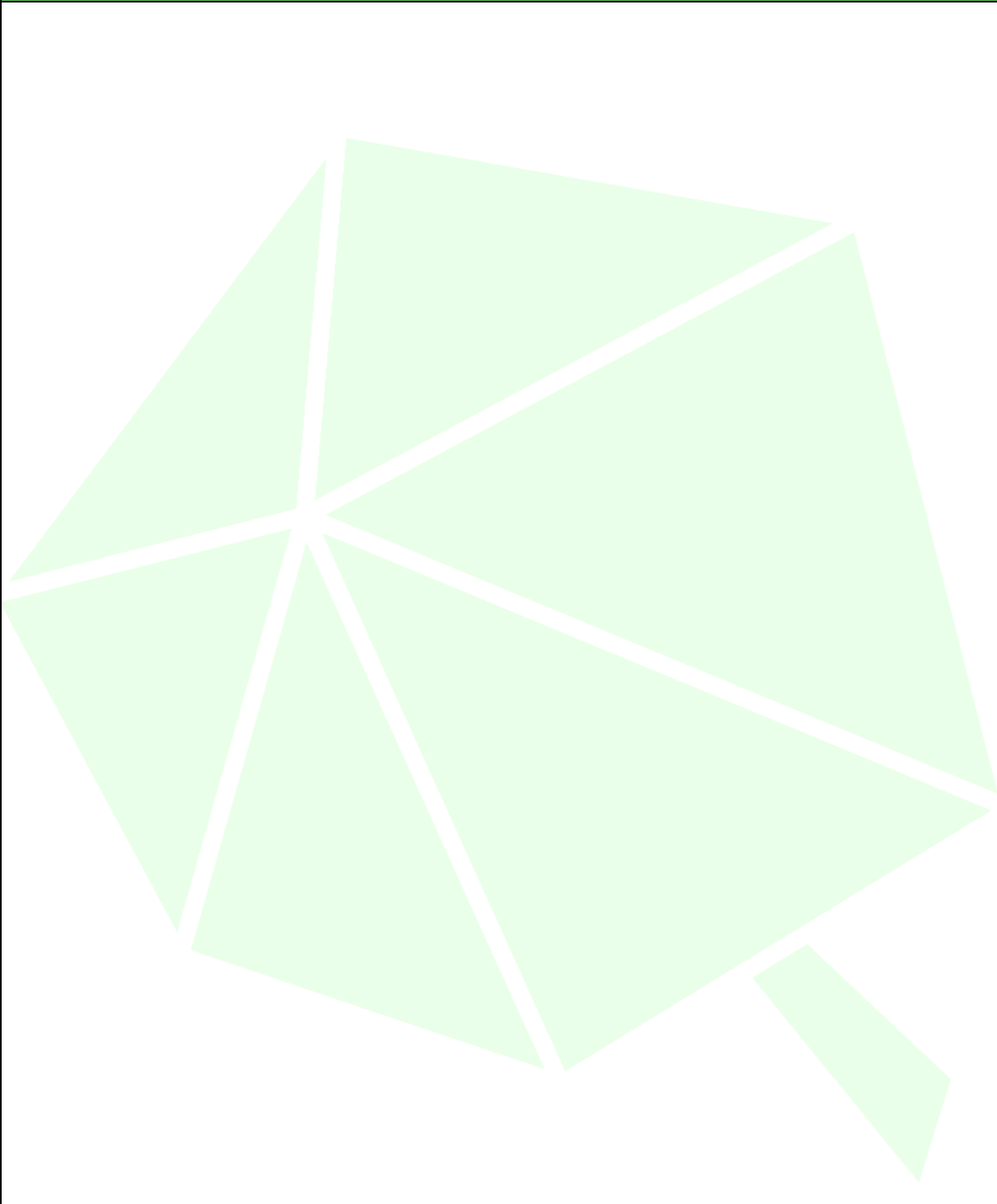


**Checklist  
supporting  
information**

of

- Site closure plan
- List of potential sources of pollution risk
- Investigation and remediation reports (where relevant)

### 10 Reference data and remediation (where relevant)

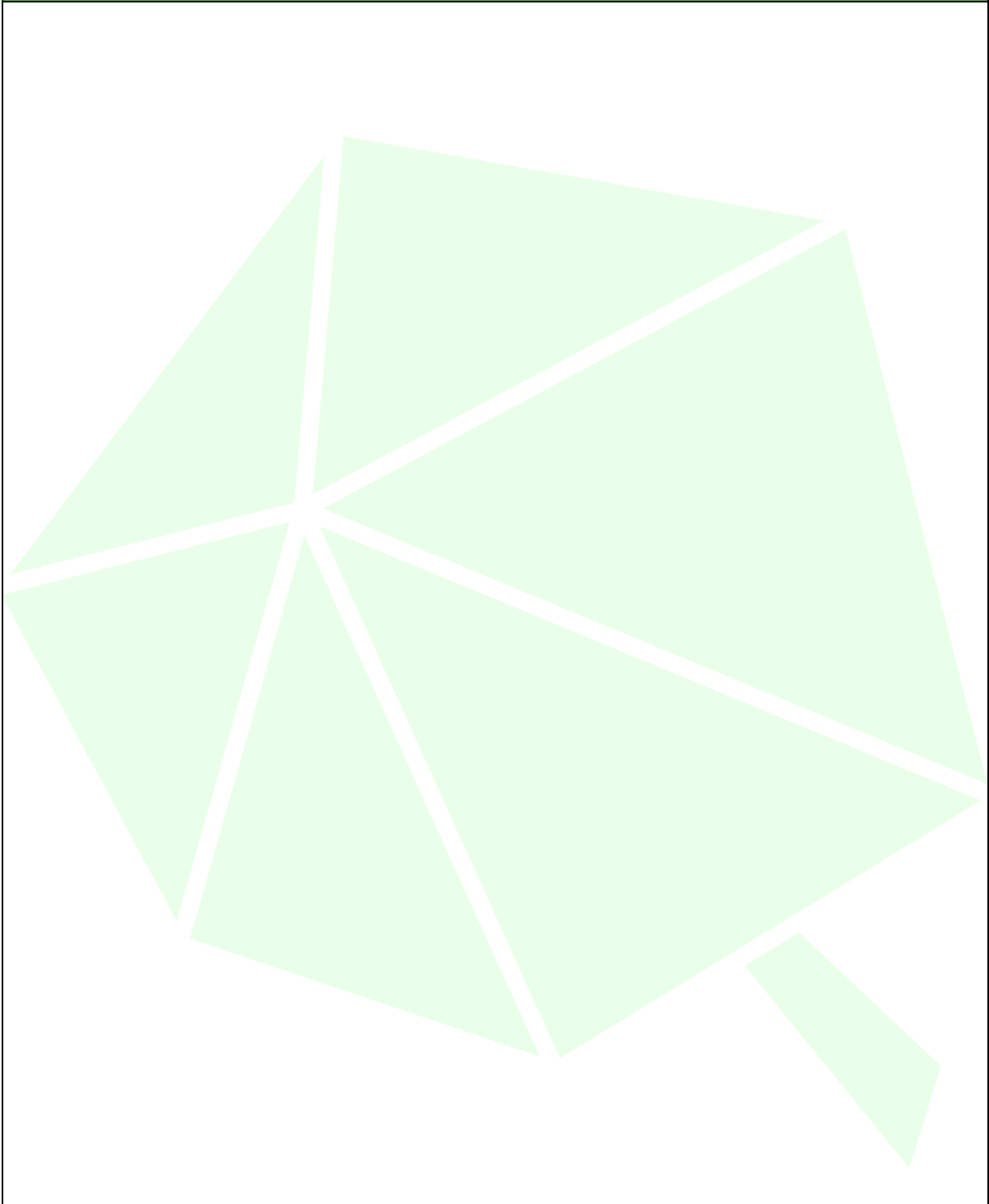


**Checklist supporting information**

of

- Land and/or groundwater data collected at application (if collected)
- Land and/or groundwater data collected at surrender (where needed)
- Assessment of satisfactory state
- Remediation and verification reports (where undertaken)

## 11 Statement of site condition





# UMBRELLA ENVIRONMENTAL

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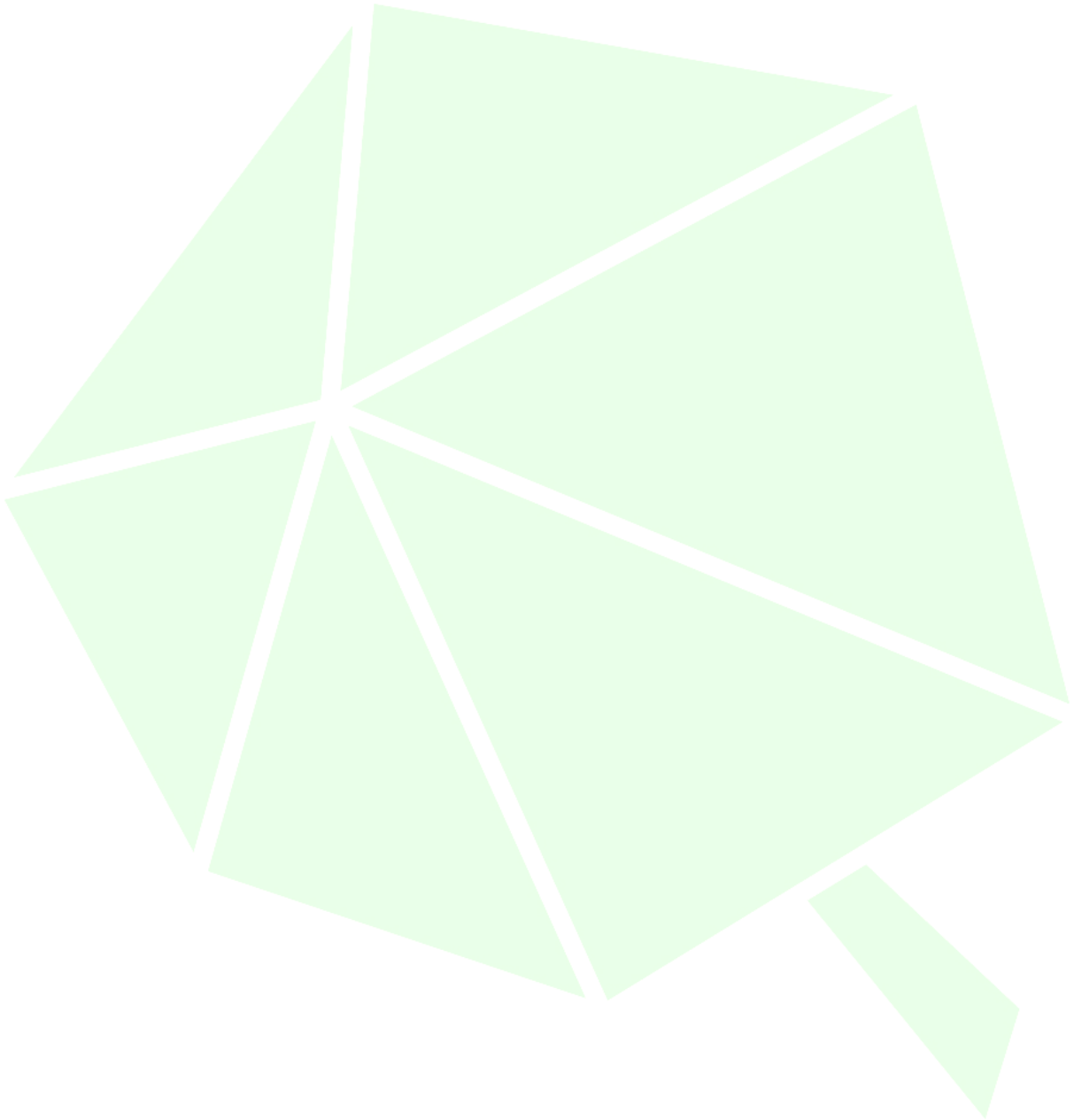
**9 Goldington Road Bedford MK40 3JY**

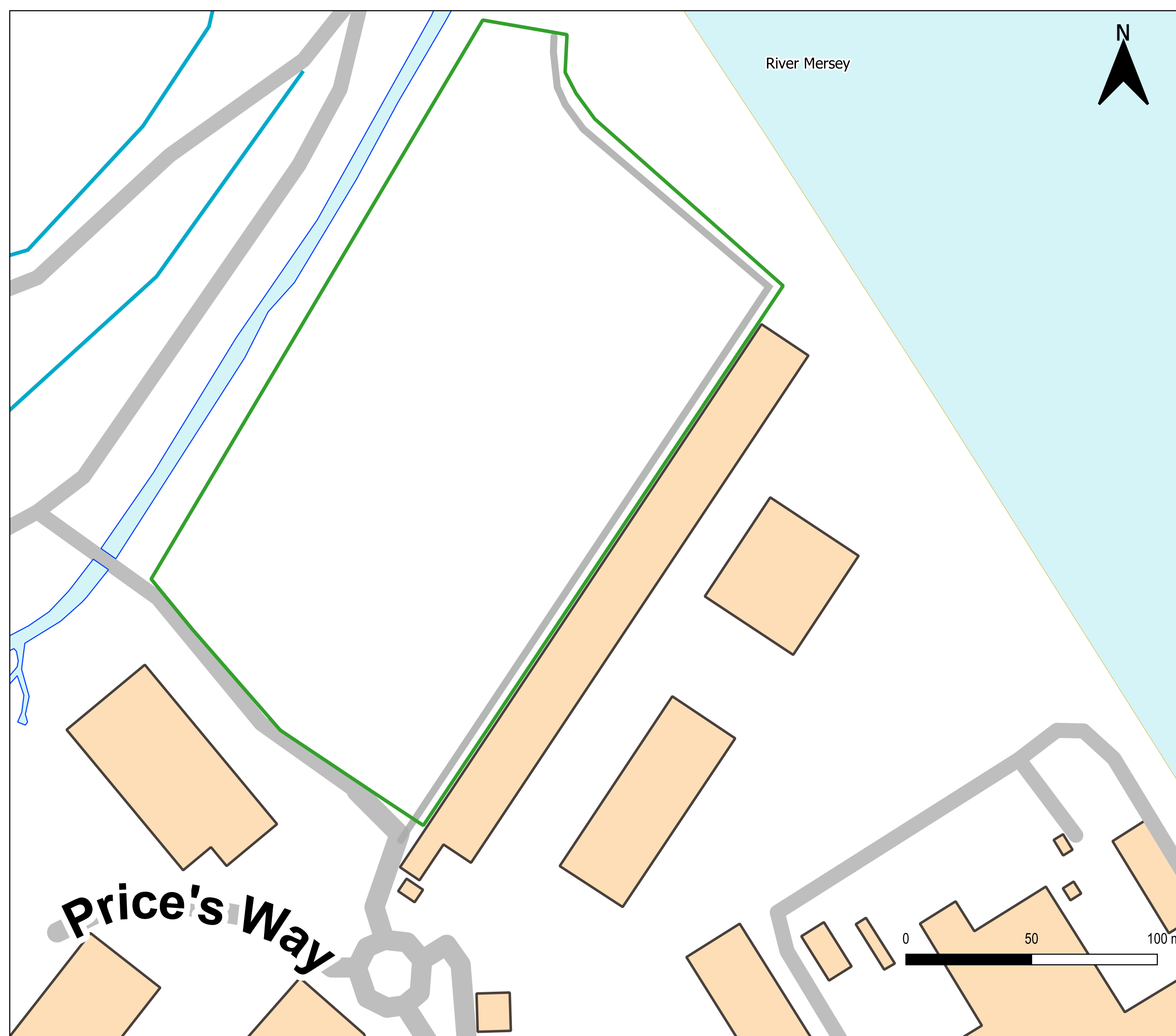
**[www.umbrella-environmental.co.uk](http://www.umbrella-environmental.co.uk)**

**[andrew@umbrellaenvironmental.co.uk](mailto:andrew@umbrellaenvironmental.co.uk)**

**Mob: 07498 671713**

# Drawings





Key:

 Permit Boundary



Drawing Title: Permit Boundary
Ref: 016.1_09_001
Scale: 1:1400 (A3)
Date: 2022-11-30
Revision: REVA
Drawn By: AIL
Address: Rock Solid Processing Ltd, Bromborough South Dock

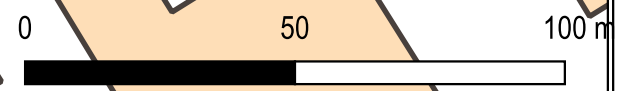
Changelog:  
- N/A

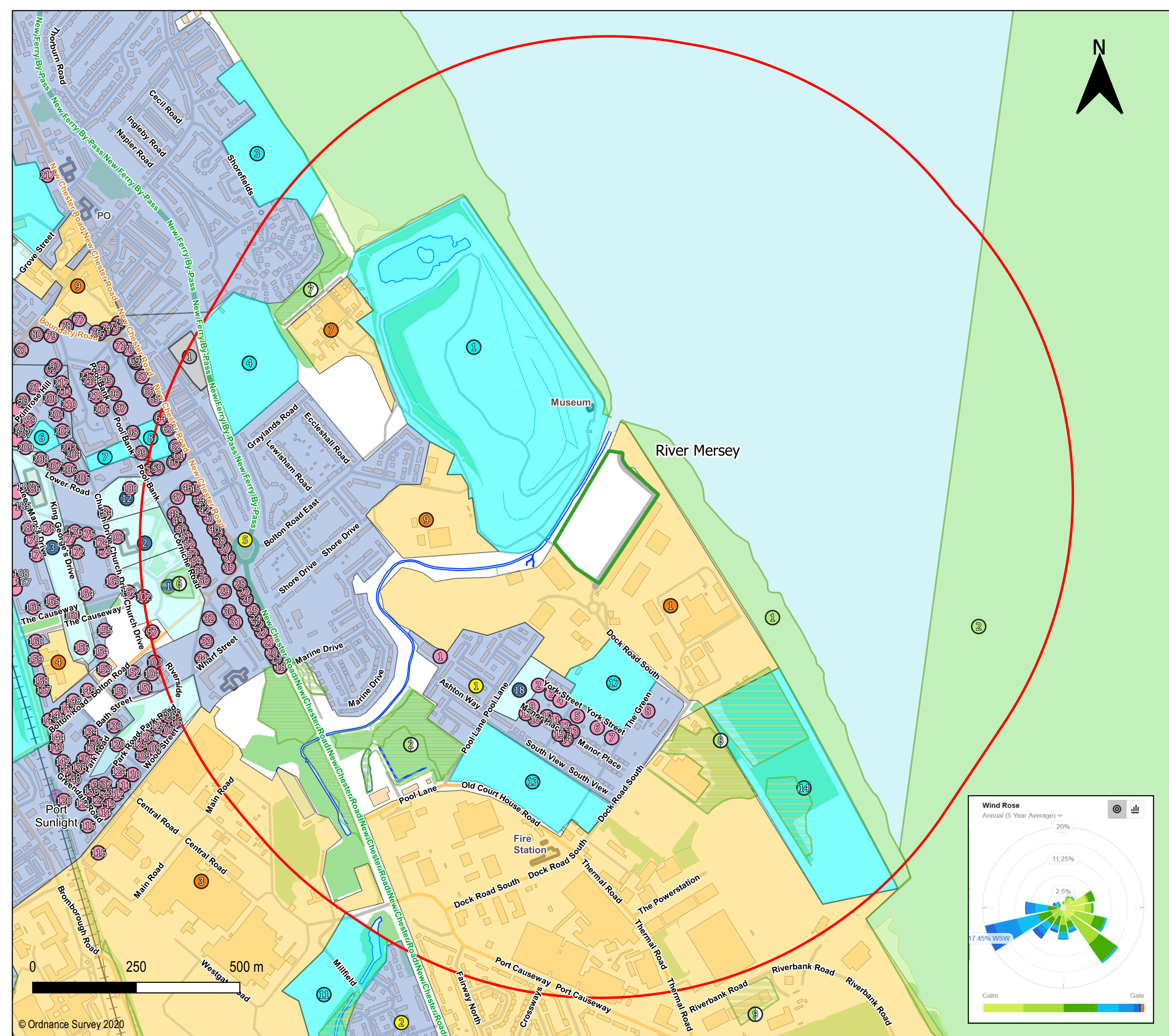
**RockSolid**  
FROM WASTE TO VALUE



**Price's Way**

River Mersey



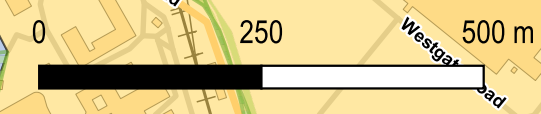
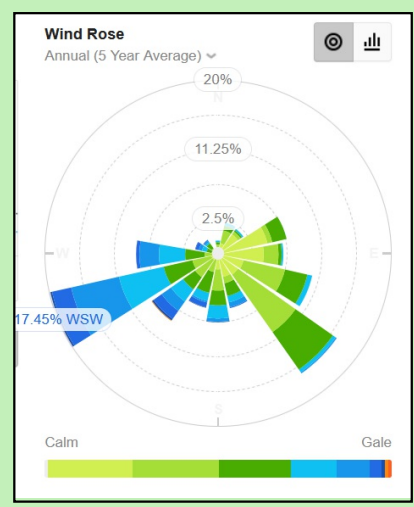


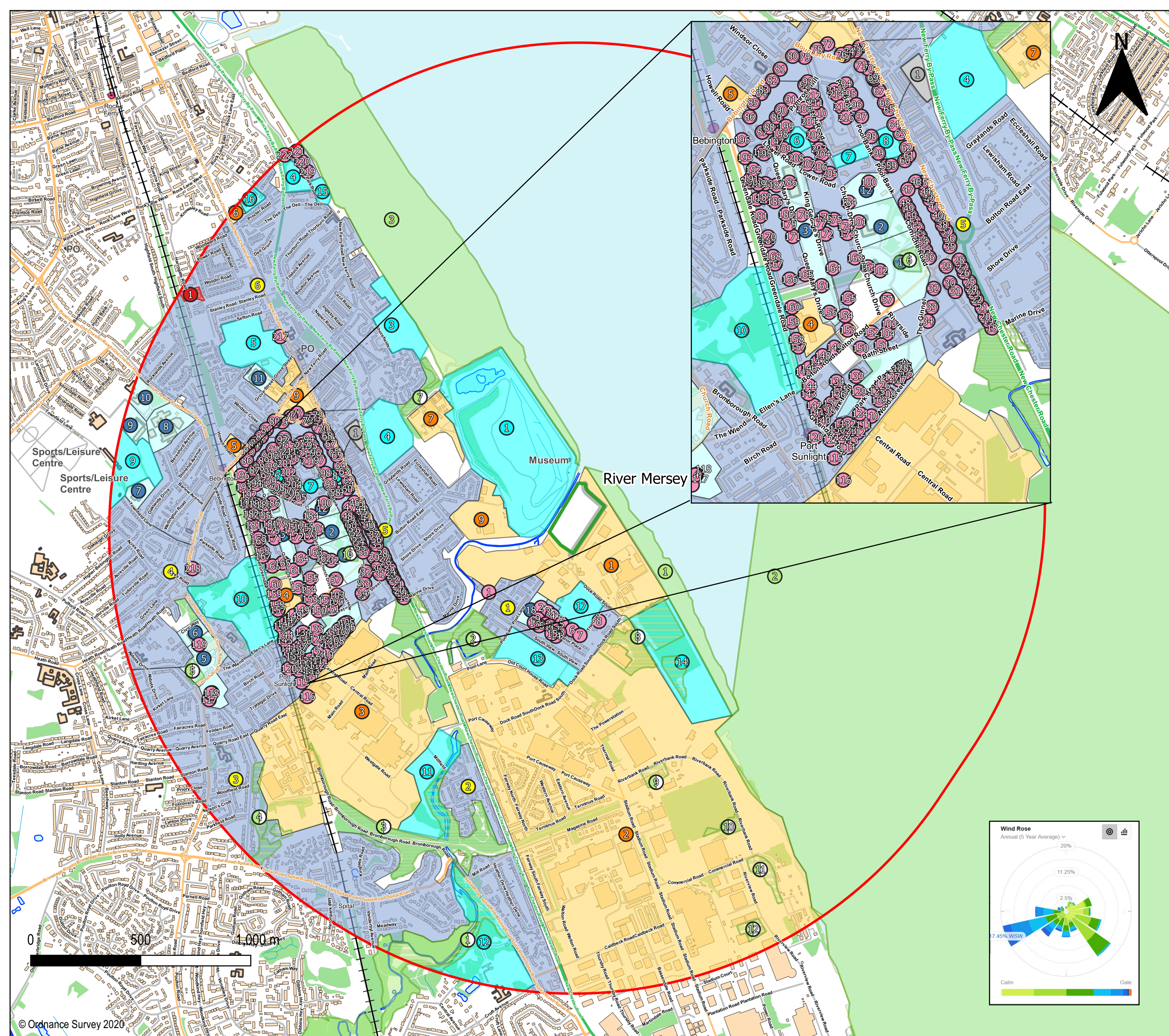
- Key:
- Permit Boundary
  - 1 Km Buffer
  - Heritage ID
  - Non Designated Site ID
  - Non Designated Site Area
  - Critical Infrastructure ID
  - Critical Infrastructure Area
  - Designated Site ID
  - Designated Site Area
  - Commercial ID
  - Commercial Area
  - Recreational ID
  - Recreational Areas
  - Public Use ID
  - Public Use Area
  - Agricultural ID
  - Agricultural Area
  - Residential ID
  - Residential Area



Drawing Title: Sensitive Receptors 1 km
Ref: 016.1_09_002
Scale: 1:8500 (A3)
Date: 2022-11-30
Revision: REV A
Drawn By: AIL
Address: Bromborough South Dock CH62 4RY

Changelog:  
- N/A





- Key:
- Permit Boundary
  - 2 Km Buffer
  - Heritage ID
  - Non Designated Site ID
  - Non Designated Site Area
  - Critical Infrastructure ID
  - Critical Infrastructure Area
  - Designated Site ID
  - Designated Site Area
  - Commercial ID
  - Commercial Area
  - Recreational ID
  - Recreational Areas
  - Public Use ID
  - Public Use Area
  - Agricultural ID
  - Agricultural Area
  - Residential ID
  - Residential Area

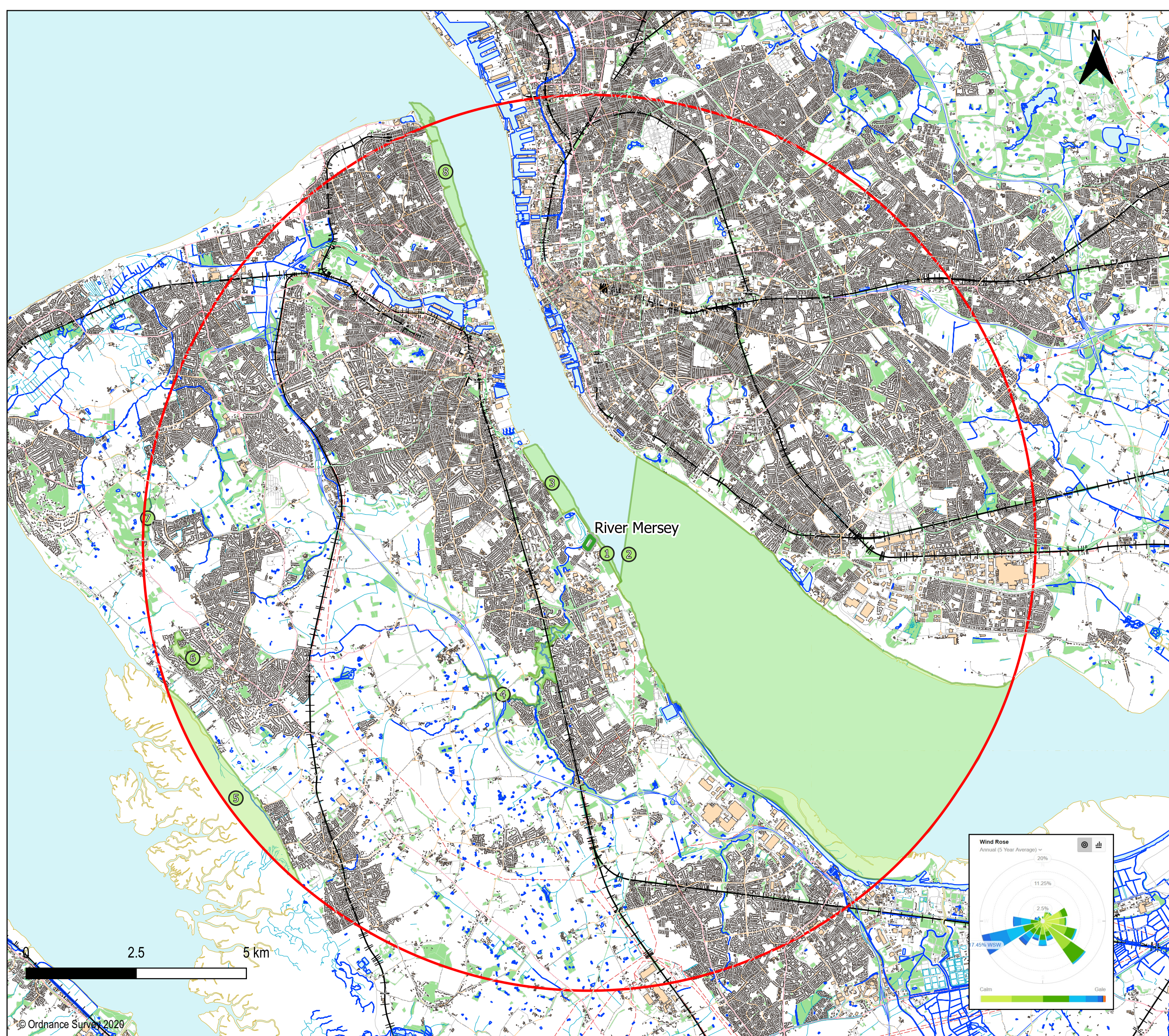
Drawing Title: Sensitive Receptors 2 km  
 Ref: 016.1\_09\_003  
 Scale: 1:16000 (A3)  
 Date: 2022-11-30  
 Revision: REV A  
 Drawn By: AIL  
 Address: Bromborough South Dock CH62 4RY

Changelog:  
 - N/A

**RockSolid**  
 FROM WASTE TO VALUE

**UMBRELLA ENVIRONMENTAL**  
 PROTECTING YOUR BUSINESS





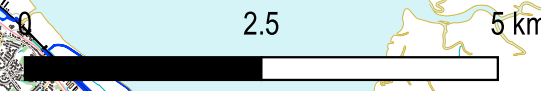
- Key:
- Permit Boundary
  - 10 Km Buffer
  - Designated Site ID
  - Designated Site Area

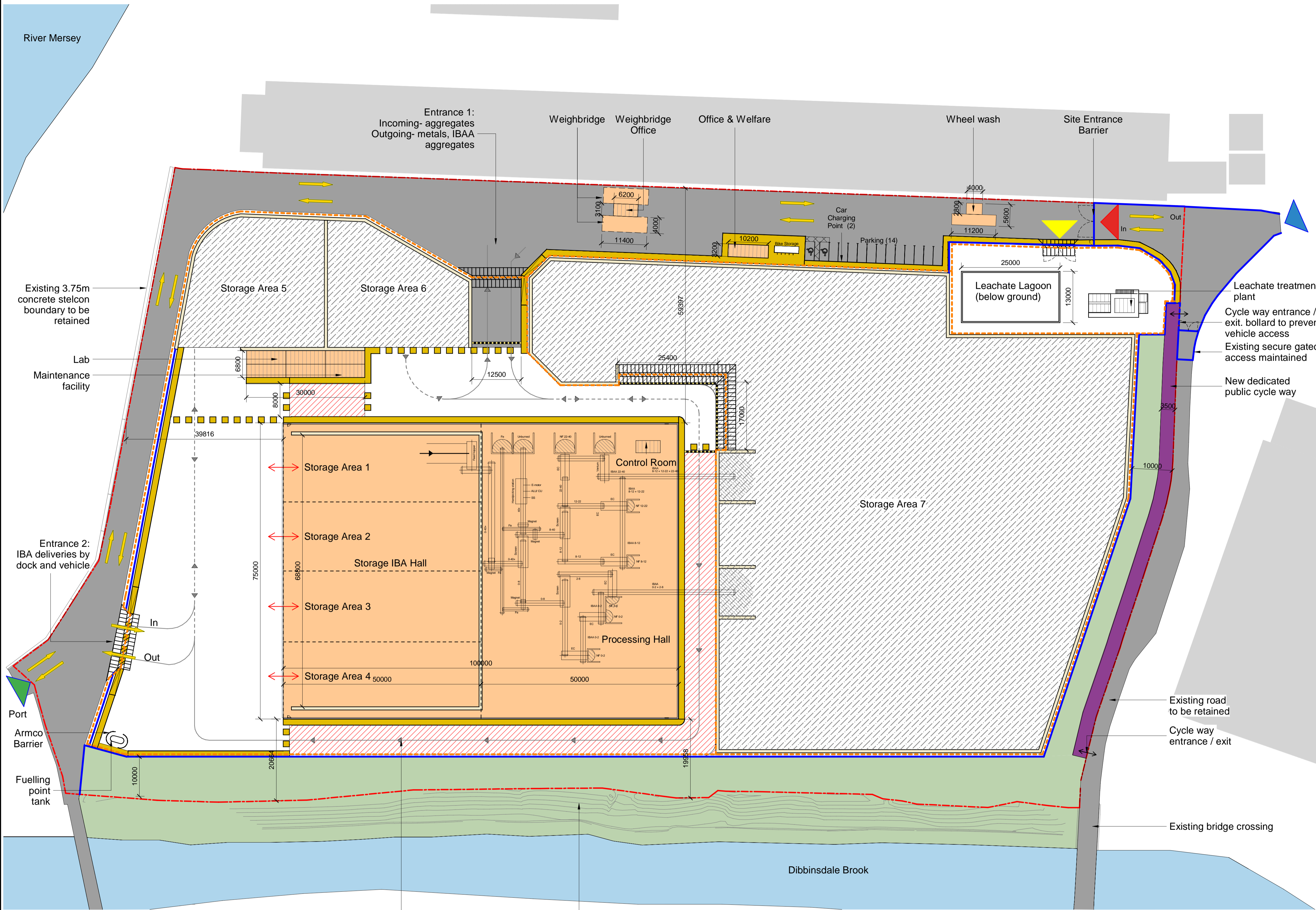
Drawing Title: Sensitive Receptors 10 km
Ref: 016.1_09_004
Scale: 1:79895 (A3)
Date: 2022-11-30
Revision: REVA
Drawn By: AIL
Address: Bromborough South Dock CH62 4RY

Changelog:  
- N/A

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- Notes**
- Do not scale from this drawing.
  - All dimensions are in millimetres unless otherwise stated.
  - This drawing is indicative only. This drawing is based upon information presented to Mott MacDonald for the purposes of RIBA Stage 2 Concept Design. Mott MacDonald are not responsible for the accuracy of the information. Any drawing errors or discrepancies should be brought to the attention of Mott MacDonald.
  - The designs shown are subject to detailed site survey, investigations, the CDM Regulations and the comments and/or approval of various relevant Local Authority Officers, Statutory Undertakers, etc.
  - Any areas shown are approximate only and have been measured off preliminary drawings as the likely measured areas of the current design. These may be affected by future design development and construction tolerances.
  - This drawing is to be used for the purposes of assisting with design development and is not to be used for construction.
  - This drawing is to be read in conjunction with all relevant documents and drawings, including those from other disciplines.
  - No unauthorised use, disclosure, storage or copying.

**Key to Symbols**

	Site boundary		250mm high impermeable bund
	Security fence		Entrance and exit to storage building
	Existing site entrance by road		New public cycle way
	Existing site entrance from the port		1.5m wide pedestrian path with 600mm armco type safety barriers
	Service entrance to treatment plant		River/ Brook
	Proposed building		Emergency/maintenance access
	3.8m high push walls (Legioblock)		Vehicle barrier
	Storage areas		Vehicle rollover bund
	Roadway		
	Landscaping/ BNG zone		
	Buildings adjacent to site		
	Direction of travel		

- Reference Drawings**
- IBA route through site: Ship - Storage Hall - Processing Hall - Processed - Remove Maximum metals - metals divided up into storage bays next to Storage Hall - IBA aggregates stored in large bays - Aggregate collected as required
  - Stockpiles are approximately 8-10m high
  - IBA is transferred from the Port to the Storage Hall by a 6-wheel industrial CAT dumper
  - IBA is transferred from Storage Hall to Processing Hall by level load shovel truck
  - IBA when transported by lorry has a typical load of about 30 tonnes per lorry, this would require an Arctic lorry measuring approximately 2.55m wide x 16.5m long, vehicle tracking has been carried out for the site
  - Location of fire water tank and pumps to be confirmed

Rev	Date	Drawn	Description	Ch'k'd	App'd
P2	29/09/2022	CM	For Review and Comment	CB	DC
P1	22/09/2022	CM	For Review and Comment	CB	DC

Status Stamp

**PLANNING**

St Vincent Plaza  
319 St Vincent St  
Glasgow, G2 5LP  
United Kingdom

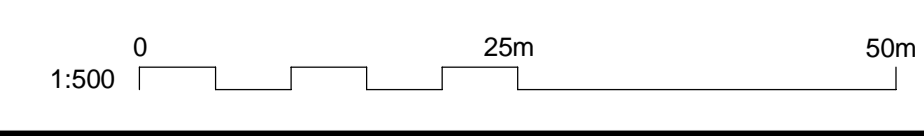
T +44 (0)141 222 4500  
F +44 (0)141 221 2048  
W www.mottmac.com

Client  
**Covanta**

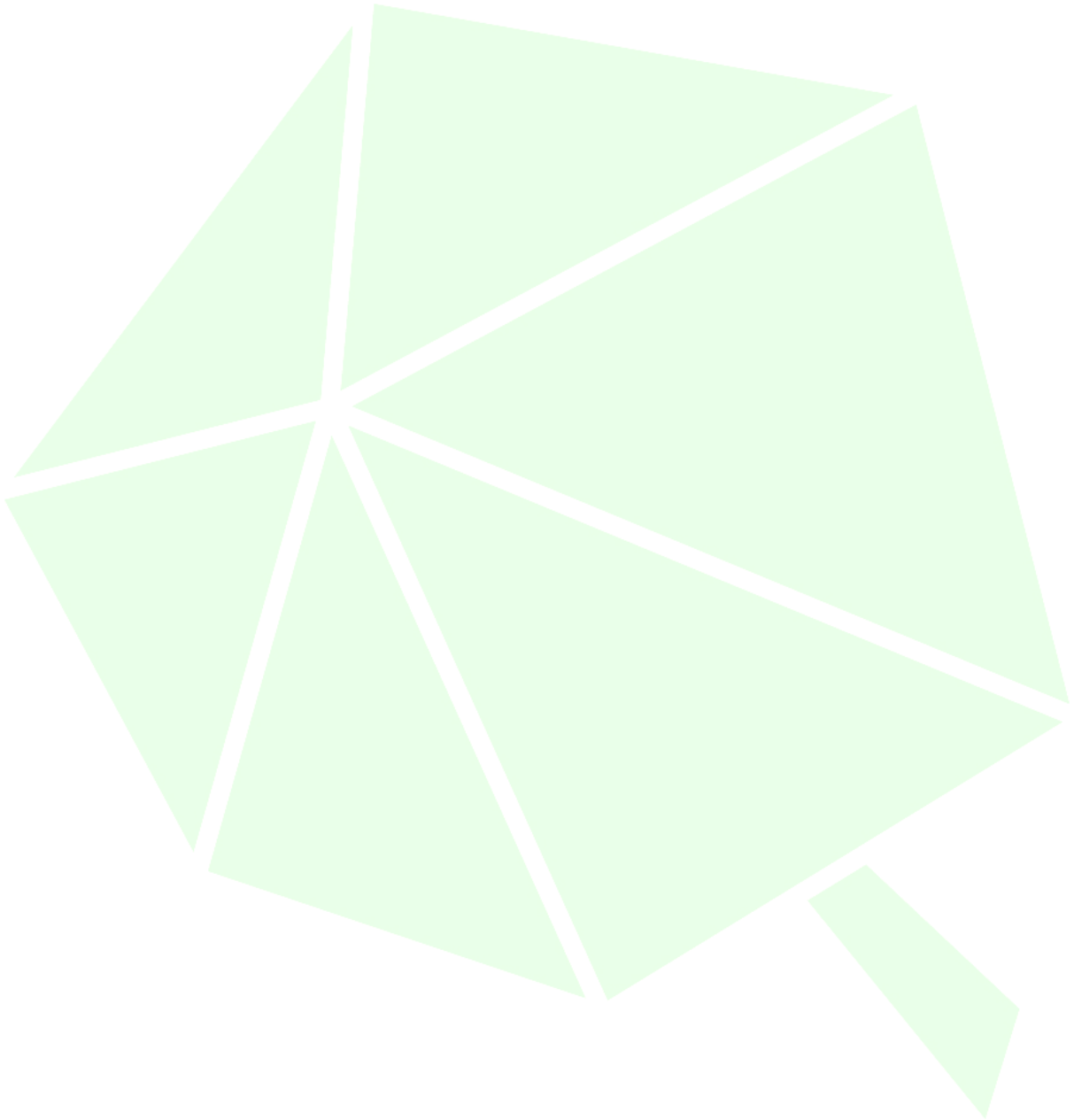
Title  
**Bromborough Dock IBA Processing Facility  
Proposed Site Block Plan**

Designed	C. McLeod	LB	Eng. Check		
Drawn	C. McLeod	CM	Coordination	L. Baxter	LB
Dwg. Check	C. Beale	CB	Approved	D. Tetlow	DT
MMD Project Number	100104167	Scale at A1	1:500	Seq. Number	STD
Suitability Description	For Review and Comment				Suit. Code
					S3
Drawing Number	100104167-MMD-00-00-DR-A-1101				Rev
					P2

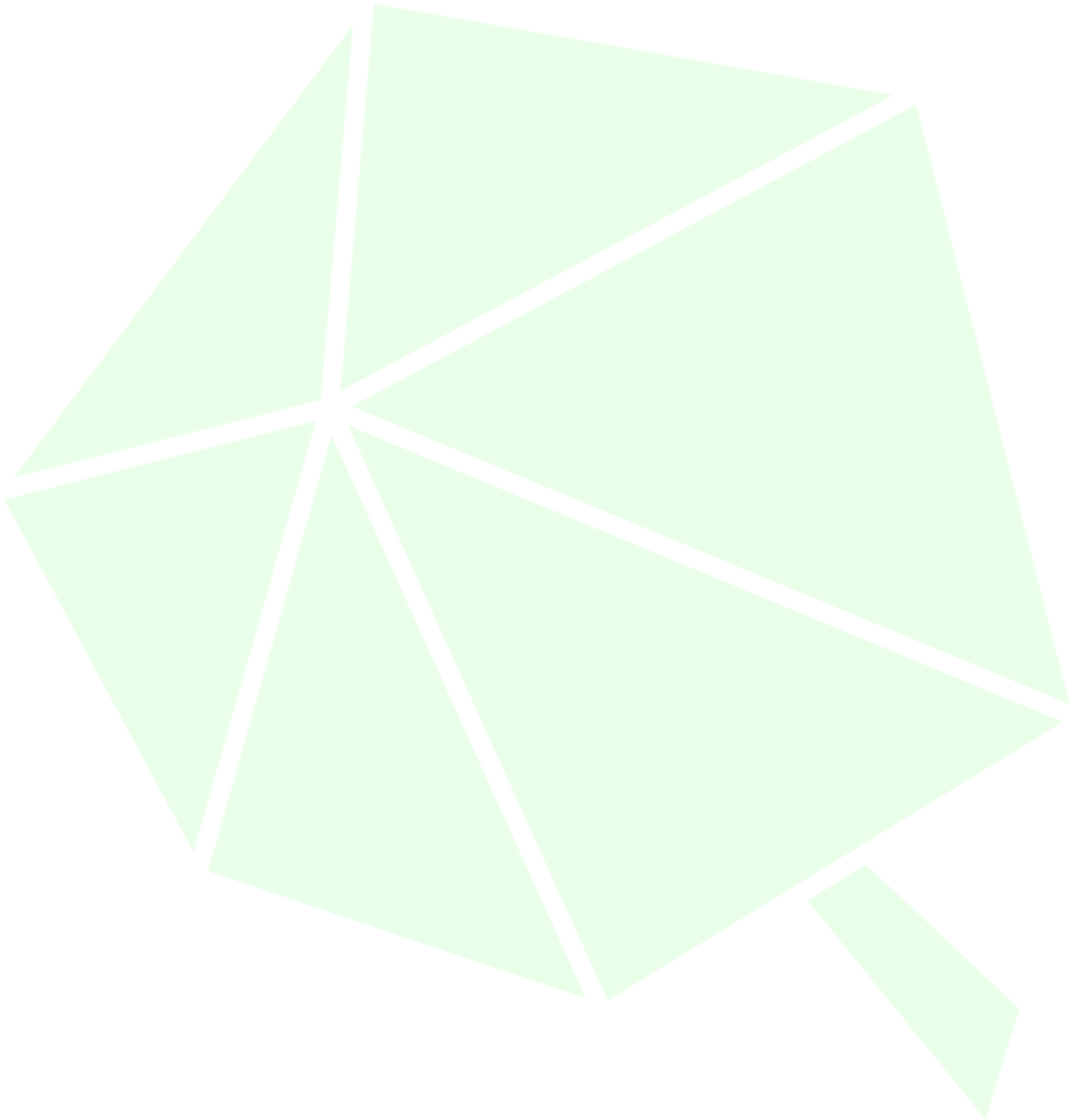
This document is issued for the party which commissioned it and for specific purposes connected with the captioned project only. It should not be relied upon by any other party or used for any other purpose. We accept no responsibility for the consequences of this document being relied upon by any other party, or being used for any other purpose, or containing any error or omission which is due to an error or omission in data supplied to us by other parties.



# Appendices



# App A



334947 , 384720,

## Order Details

**Date:** 26/09/2022  
**Your ref:** 016\_1\_Bromborough  
**Our Ref:** GS-9077523

## Site Details

**Location:** 334947 384720  
**Area:** 4.54 ha  
**Authority:** [Wirral Council](#)



**Summary of findings**

p. 2

**Aerial image**

p. 8

**OS MasterMap site plan**

p.13

[groundsure.com/insightuserguide](https://groundsure.com/insightuserguide)

Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com)

08444 159 000

## Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">14</a>	<a href="#">1.1</a>	<b><u>Historical industrial land uses</u></b>	21	12	49	52	-
<a href="#">19</a>	<a href="#">1.2</a>	<b><u>Historical tanks</u></b>	0	12	93	59	-
<a href="#">26</a>	<a href="#">1.3</a>	<b><u>Historical energy features</u></b>	0	0	9	4	-
26	1.4	Historical petrol stations	0	0	0	0	-
27	1.5	Historical garages	0	0	0	0	-
27	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">28</a>	<a href="#">2.1</a>	<b><u>Historical industrial land uses</u></b>	30	19	61	61	-
<a href="#">35</a>	<a href="#">2.2</a>	<b><u>Historical tanks</u></b>	0	25	132	85	-
<a href="#">44</a>	<a href="#">2.3</a>	<b><u>Historical energy features</u></b>	0	0	16	7	-
45	2.4	Historical petrol stations	0	0	0	0	-
45	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">46</a>	<a href="#">3.1</a>	<b><u>Active or recent landfill</u></b>	1	1	0	1	-
<a href="#">47</a>	<a href="#">3.2</a>	<b><u>Historical landfill (BGS records)</u></b>	0	0	0	1	-
<a href="#">47</a>	<a href="#">3.3</a>	<b><u>Historical landfill (LA/mapping records)</u></b>	0	0	0	2	-
<a href="#">48</a>	<a href="#">3.4</a>	<b><u>Historical landfill (EA/NRW records)</u></b>	1	1	2	2	-
<a href="#">49</a>	<a href="#">3.5</a>	<b><u>Historical waste sites</u></b>	0	0	2	0	-
<a href="#">50</a>	<a href="#">3.6</a>	<b><u>Licensed waste sites</u></b>	5	0	0	4	-
<a href="#">53</a>	<a href="#">3.7</a>	<b><u>Waste exemptions</u></b>	1	4	0	9	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
<a href="#">55</a>	<a href="#">4.1</a>	<b><u>Recent industrial land uses</u></b>	0	5	36	-	-
58	4.2	Current or recent petrol stations	0	0	0	0	-
58	4.3	Electricity cables	0	0	0	0	-
58	4.4	Gas pipelines	0	0	0	0	-
59	4.5	Sites determined as Contaminated Land	0	0	0	0	-



<b>59</b>	<b>4.6</b>	<b><u>Control of Major Accident Hazards (COMAH)</u></b>	2	0	0	2	-
59	4.7	Regulated explosive sites	0	0	0	0	-
<b>60</b>	<b>4.8</b>	<b><u>Hazardous substance storage/usage</u></b>	0	1	0	0	-
<b>60</b>	<b>4.9</b>	<b><u>Historical licensed industrial activities (IPC)</u></b>	0	0	0	31	-
<b>64</b>	<b>4.10</b>	<b><u>Licensed industrial activities (Part A(1))</u></b>	0	0	0	29	-
<b>69</b>	<b>4.11</b>	<b><u>Licensed pollutant release (Part A(2)/B)</u></b>	0	0	0	2	-
69	4.12	Radioactive Substance Authorisations	0	0	0	0	-
<b>69</b>	<b>4.13</b>	<b><u>Licensed Discharges to controlled waters</u></b>	0	0	11	28	-
75	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
<b>76</b>	<b>4.15</b>	<b><u>Pollutant release to public sewer</u></b>	0	0	0	1	-
76	4.16	List 1 Dangerous Substances	0	0	0	0	-
76	4.17	List 2 Dangerous Substances	0	0	0	0	-
<b>76</b>	<b>4.18</b>	<b><u>Pollution Incidents (EA/NRW)</u></b>	0	0	0	1	-
77	4.19	Pollution inventory substances	0	0	0	0	-
77	4.20	Pollution inventory waste transfers	0	0	0	0	-
77	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
<b>78</b>	<b>5.1</b>	<b><u>Superficial aquifer</u></b>	Identified (within 500m)				
<b>80</b>	<b>5.2</b>	<b><u>Bedrock aquifer</u></b>	Identified (within 500m)				
<b>82</b>	<b>5.3</b>	<b><u>Groundwater vulnerability</u></b>	Identified (within 50m)				
83	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
83	5.5	Groundwater vulnerability- local information	None (within 0m)				
<b>84</b>	<b>5.6</b>	<b><u>Groundwater abstractions</u></b>	0	0	0	6	24
<b>92</b>	<b>5.7</b>	<b><u>Surface water abstractions</u></b>	0	0	0	0	1
93	5.8	Potable abstractions	0	0	0	0	0
93	5.9	Source Protection Zones	0	0	0	0	-
93	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
<b>94</b>	<b>6.1</b>	<b><u>Water Network (OS MasterMap)</u></b>	0	13	10	-	-



<b>96</b>	<b>6.2</b>	<b><u>Surface water features</u></b>	0	3	6	-	-
<b>97</b>	<b>6.3</b>	<b><u>WFD Surface water body catchments</u></b>	1	-	-	-	-
<b>97</b>	<b>6.4</b>	<b><u>WFD Surface water bodies</u></b>	1	0	0	-	-
<b>97</b>	<b>6.5</b>	<b><u>WFD Groundwater bodies</u></b>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
<b>99</b>	<b>7.1</b>	<b><u>Risk of flooding from rivers and the sea</u></b>	High (within 50m)				
100	7.2	Historical Flood Events	0	0	0	-	-
100	7.3	Flood Defences	0	0	0	-	-
100	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
100	7.5	Flood Storage Areas	0	0	0	-	-
<b>101</b>	<b>7.6</b>	<b><u>Flood Zone 2</u></b>	Identified (within 50m)				
<b>102</b>	<b>7.7</b>	<b><u>Flood Zone 3</u></b>	Identified (within 50m)				
Page	Section	Surface water flooding					
<b>103</b>	<b>8.1</b>	<b><u>Surface water flooding</u></b>	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
<b>105</b>	<b>9.1</b>	<b><u>Groundwater flooding</u></b>	High (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
<b>106</b>	<b>10.1</b>	<b><u>Sites of Special Scientific Interest (SSSI)</u></b>	0	1	1	0	2
<b>107</b>	<b>10.2</b>	<b><u>Conserved wetland sites (Ramsar sites)</u></b>	0	1	1	0	2
108	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
<b>108</b>	<b>10.4</b>	<b><u>Special Protection Areas (SPA)</u></b>	0	1	2	0	7
110	10.5	National Nature Reserves (NNR)	0	0	0	0	0
<b>110</b>	<b>10.6</b>	<b><u>Local Nature Reserves (LNR)</u></b>	0	0	0	0	1
<b>111</b>	<b>10.7</b>	<b><u>Designated Ancient Woodland</u></b>	0	0	0	0	3
111	10.8	Biosphere Reserves	0	0	0	0	0
111	10.9	Forest Parks	0	0	0	0	0
111	10.10	Marine Conservation Zones	0	0	0	0	0
112	10.11	Green Belt	0	0	0	0	0
112	10.12	Proposed Ramsar sites	0	0	0	0	0





112	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
112	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
112	10.15	Nitrate Sensitive Areas	0	0	0	0	0
<b>113</b>	<b>10.16</b>	<b><u>Nitrate Vulnerable Zones</u></b>	0	0	0	0	2
<b>114</b>	<b>10.17</b>	<b><u>SSSI Impact Risk Zones</u></b>	3	-	-	-	-
<b>116</b>	<b>10.18</b>	<b><u>SSSI Units</u></b>	0	1	1	0	5
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
121	11.1	World Heritage Sites	0	0	0	-	-
122	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
122	11.3	National Parks	0	0	0	-	-
122	11.4	Listed Buildings	0	0	0	-	-
<b>122</b>	<b>11.5</b>	<b><u>Conservation Areas</u></b>	0	0	1	-	-
123	11.6	Scheduled Ancient Monuments	0	0	0	-	-
123	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
<b>124</b>	<b>12.1</b>	<b><u>Agricultural Land Classification</u></b>	Urban (within 250m)				
125	12.2	Open Access Land	0	0	0	-	-
125	12.3	Tree Felling Licences	0	0	0	-	-
125	12.4	Environmental Stewardship Schemes	0	0	0	-	-
125	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
<b>126</b>	<b>13.1</b>	<b><u>Priority Habitat Inventory</u></b>	0	1	1	-	-
127	13.2	Habitat Networks	0	0	0	-	-
127	13.3	Open Mosaic Habitat	0	0	0	-	-
127	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<b>128</b>	<b>14.1</b>	<b><u>10k Availability</u></b>	Identified (within 500m)				
<b>130</b>	<b>14.2</b>	<b><u>Artificial and made ground (10k)</u></b>	2	1	1	1	-
<b>132</b>	<b>14.3</b>	<b><u>Superficial geology (10k)</u></b>	2	0	5	0	-



133	14.4	Landslip (10k)	0	0	0	0	-
<b>134</b>	<b>14.5</b>	<b><u>Bedrock geology (10k)</u></b>	2	0	3	0	-
<b>135</b>	<b>14.6</b>	<b><u>Bedrock faults and other linear features (10k)</u></b>	0	0	2	1	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<b>136</b>	<b>15.1</b>	<b><u>50k Availability</u></b>	Identified (within 500m)				
<b>137</b>	<b>15.2</b>	<b><u>Artificial and made ground (50k)</u></b>	1	1	0	0	-
<b>138</b>	<b>15.3</b>	<b><u>Artificial ground permeability (50k)</u></b>	2	1	-	-	-
<b>139</b>	<b>15.4</b>	<b><u>Superficial geology (50k)</u></b>	1	1	3	0	-
<b>140</b>	<b>15.5</b>	<b><u>Superficial permeability (50k)</u></b>	Identified (within 50m)				
140	15.6	Landslip (50k)	0	0	0	0	-
140	15.7	Landslip permeability (50k)	None (within 50m)				
<b>141</b>	<b>15.8</b>	<b><u>Bedrock geology (50k)</u></b>	1	1	1	1	-
<b>142</b>	<b>15.9</b>	<b><u>Bedrock permeability (50k)</u></b>	Identified (within 50m)				
<b>142</b>	<b>15.10</b>	<b><u>Bedrock faults and other linear features (50k)</u></b>	0	0	1	3	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
<b>143</b>	<b>16.1</b>	<b><u>BGS Boreholes</u></b>	2	6	27	-	-
Page	Section	Natural ground subsidence					
<b>146</b>	<b>17.1</b>	<b><u>Shrink swell clays</u></b>	Very low (within 50m)				
<b>147</b>	<b>17.2</b>	<b><u>Running sands</u></b>	Moderate (within 50m)				
<b>149</b>	<b>17.3</b>	<b><u>Compressible deposits</u></b>	Moderate (within 50m)				
<b>151</b>	<b>17.4</b>	<b><u>Collapsible deposits</u></b>	Negligible (within 50m)				
<b>152</b>	<b>17.5</b>	<b><u>Landslides</u></b>	Moderate (within 50m)				
<b>154</b>	<b>17.6</b>	<b><u>Ground dissolution of soluble rocks</u></b>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
156	18.1	Natural cavities	0	0	0	0	-
<b>157</b>	<b>18.2</b>	<b><u>BritPits</u></b>	0	1	0	2	-
<b>157</b>	<b>18.3</b>	<b><u>Surface ground workings</u></b>	14	4	17	-	-
<b>159</b>	<b>18.4</b>	<b><u>Underground workings</u></b>	0	0	0	0	1
159	18.5	Historical Mineral Planning Areas	0	0	0	0	-



159	18.6	Non-coal mining	0	0	0	0	0
160	18.7	Mining cavities	0	0	0	0	0
160	18.8	JPB mining areas	None (within 0m)				
160	18.9	Coal mining	None (within 0m)				
160	18.10	Brine areas	None (within 0m)				
160	18.11	Gypsum areas	None (within 0m)				
161	18.12	Tin mining	None (within 0m)				
161	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
<b>162</b>	<b>19.1</b>	<b>Radon</b>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<b>163</b>	<b>20.1</b>	<b>BGS Estimated Background Soil Chemistry</b>	2	1	-	-	-
163	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
163	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
164	21.1	Underground railways (London)	0	0	0	-	-
164	21.2	Underground railways (Non-London)	0	0	0	-	-
165	21.3	Railway tunnels	0	0	0	-	-
<b>165</b>	<b>21.4</b>	<b>Historical railway and tunnel features</b>	14	6	19	-	-
166	21.5	Royal Mail tunnels	0	0	0	-	-
167	21.6	Historical railways	0	0	0	-	-
167	21.7	Railways	0	0	0	-	-
167	21.8	Crossrail 1	0	0	0	0	-
167	21.9	Crossrail 2	0	0	0	0	-
167	21.10	HS2	0	0	0	0	-

## Recent aerial photograph



Capture Date: 22/04/2019

Site Area: 4.54ha



## Recent site history - 2016 aerial photograph



Capture Date: 21/04/2016

Site Area: 4.54ha



## Recent site history - 2005 aerial photograph



Capture Date: 15/05/2005

Site Area: 4.54ha



## Recent site history - 2001 aerial photograph



Capture Date: 01/05/2001

Site Area: 4.54ha



## Recent site history - 2000 aerial photograph



Capture Date: 25/08/2000

Site Area: 4.54ha





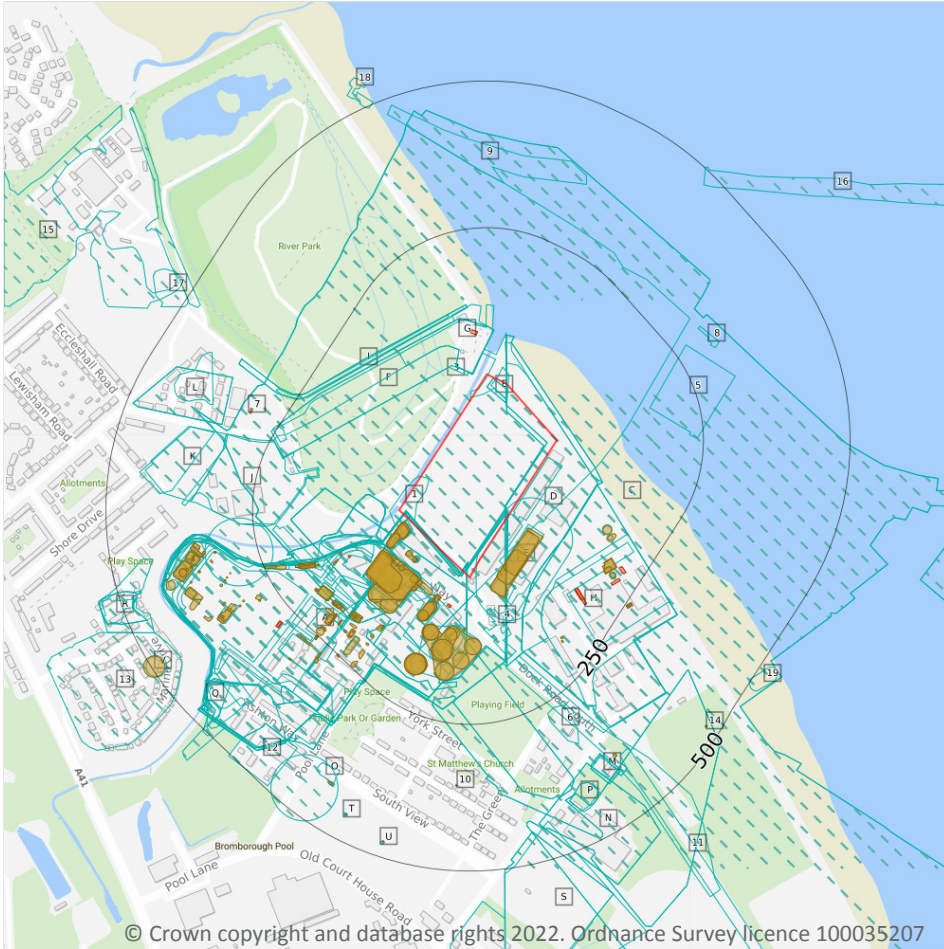
## OS MasterMap site plan



Site Area: 4.54ha



# 1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features

## 1.1 Historical industrial land uses

**Records within 500m** **134**

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
1	On site	Refuse Heap	1989	828721



ID	Location	Land use	Dates present	Group ID
2	On site	Dock	1965 - 1991	942487
3	On site	Timber Yard	1925	796290
A	On site	Railway Sidings	1936	847244
A	On site	Unspecified Depot	1965 - 1974	855473
A	On site	Dock	1936	885368
A	On site	Railway Sidings	1938	889896
A	On site	Candle Works	1936	903509
A	On site	Unspecified Works	1965 - 1974	917583
A	On site	Candle Works	1938	922082
A	On site	Unspecified Works	1989	949837
A	On site	Dock	1974 - 1975	951669
A	On site	Candle Works	1949	968746
A	On site	Railway Sidings	1949 - 1974	970035
B	On site	Railway Sidings	1949	844531
B	On site	Railway Sidings	1974	844345
B	On site	Railway Sidings	1965	844434
C	On site	Docks	1925	802216
C	On site	Railway Sidings	1925	844488
D	On site	Dock	1949	886490
E	On site	Storage Tanks	1949	822282
D	2m SE	Unspecified Warehouse	1949	807120
A	4m SW	Unspecified Tanks	1989	875976
A	7m SW	Unspecified Tanks	1938 - 1974	898986
A	9m SW	Unspecified Tanks	1936	918555
F	21m NW	Dock	1938 - 1949	968983
F	22m NW	Dock	1965 - 1974	859342
G	22m NW	Unspecified Works	1965	830154
A	33m SW	Unspecified Tank	1989	974360



ID	Location	Land use	Dates present	Group ID
A	34m SW	Unspecified Tank	1938 - 1949	878012
E	37m SE	Unspecified Tanks	1974 - 1975	850313
A	38m SW	Unspecified Tank	1936	903861
E	40m SE	Unspecified Tanks	1991	891390
A	54m SW	Unspecified Tanks	1949	852659
A	54m SW	Unspecified Tanks	1965	956756
A	54m SW	Unspecified Tanks	1974	968438
A	56m SW	Unspecified Tanks	1936 - 1938	884526
A	57m SW	Candle Works	1925	898657
A	58m SW	Railway Sidings	1909 - 1925	880089
A	58m SW	Candle Works	1909 - 1925	902702
A	60m SW	Unspecified Works	1898	943861
4	63m SE	Hydraulic Station	1925	837283
A	64m SW	Unspecified Heap	1949	803208
E	65m SE	Railway Buildings	1925	833535
A	66m SW	Unspecified Ground Workings	1938	799730
A	68m SW	Unspecified Tanks	1949 - 1974	915644
A	69m SW	Unspecified Tanks	1936	916682
A	70m SW	Railway Sidings	1938	957493
A	71m SW	Unspecified Tanks	1938	957869
A	82m S	Hospital	1898	834360
A	84m S	Unspecified Tanks	1949 - 1974	948377
A	84m S	Unspecified Tanks	1936	915770
A	86m SW	Railway Sidings	1925	991893
A	91m S	Unspecified Tanks	1938	896351
H	95m SE	Unspecified Factory	1975	857411
H	95m SE	Unspecified Factory	1991	968010
I	116m NW	Unspecified Ground Workings	1974	910548



ID	Location	Land use	Dates present	Group ID
I	116m NW	Unspecified Ground Workings	1965	966579
I	117m NW	Unspecified Ground Workings	1989	854741
A	119m S	Unspecified Tanks	1938	956236
H	128m SE	Unspecified Works	1965	830153
H	130m SE	Railway Sidings	1965 - 1975	889895
C	147m SE	Unspecified Tanks	1975	815124
J	147m W	Unspecified Works	1974	980045
J	150m NW	Unspecified Works	1989	982578
A	157m SW	Chimney	1965	835694
A	160m SW	Unspecified Tank	1989	824415
C	163m SE	Unspecified Tanks	1975	815123
C	163m SE	Unspecified Tank	1991	824412
A	163m SW	Goods Shed	1925	834662
A	167m SW	Unspecified Tank	1925	964416
5	168m E	Coal Depot	1925	794129
A	175m SW	Unspecified Tanks	1965 - 1974	957554
A	175m SW	Unspecified Tanks	1989	968384
A	177m SW	Unspecified Tanks	1989	815122
A	182m SW	Unspecified Tanks	1989	815121
C	199m SE	Unspecified Tank	1991	855734
C	199m SE	Unspecified Tank	1975	866909
C	203m SE	Unspecified Tank	1965	910410
A	205m SW	Unspecified Tanks	1989	815120
A	208m SW	Unspecified Covered Tanks	1989	827982
A	224m W	Transit Shed	1925	826519
6	263m SE	Unspecified Pit	1925	839572
8	307m NE	Railway Station	1925	822881
K	317m W	Unspecified Depot	1989	970224



ID	Location	Land use	Dates present	Group ID
A	318m SW	Unspecified Tanks	1989	815119
9	328m N	Cuttings	1925	795596
L	336m NW	Unspecified Warehouse	1989	853500
L	336m NW	Unspecified Warehouse	1974	869895
A	338m W	Unspecified Tanks	1989	869400
K	342m NW	Unspecified Depot	1974	987399
A	342m W	Unspecified Tanks	1965	856326
A	357m W	Unspecified Tanks	1974	899054
L	365m NW	Unspecified Heap	1965	803209
A	373m SW	Unspecified Tanks	1989	815118
M	373m SE	Sewage Works	1991	874308
M	373m SE	Sewage Works	1975	968946
N	374m SE	Unspecified Factory	1975	955953
N	374m SE	Unspecified Factory	1991	963529
M	376m SE	Unspecified Works	1965	830158
M	376m SE	Sewage Works	1949	941533
A	377m W	Unspecified Tank	1909	824413
11	396m SE	Railway Sidings	1975	885751
O	397m SW	Unspecified Quarry	1898	816596
A	398m W	Unspecified Tank	1989	824414
P	399m SE	Unspecified Heap	1991	923586
P	399m SE	Unspecified Heap	1965 - 1975	970359
O	399m SW	Unspecified Old Quarry	1909	832907
Q	402m SW	Unspecified Ground Workings	1938	799729
M	409m SE	Pump House	1991	854428
M	409m SE	Pump House	1975	940157
Q	412m SW	Unspecified Heap	1936	881094
12	413m SW	Unspecified Depot	1989	818265



ID	Location	Land use	Dates present	Group ID
Q	415m SW	Unspecified Pits	1909	811159
O	421m SW	Unspecified Tank	1936 - 1938	875616
R	428m W	Unspecified Works	1965 - 1974	905710
S	436m S	Engineering Works	1949	811605
S	446m S	Unspecified Works	1991	985503
S	446m S	Unspecified Works	1965 - 1975	991912
13	449m SW	Unspecified Depot	1965 - 1974	936138
T	453m SW	Unspecified Tank	1925	915918
Q	454m SW	Unspecified Pit	1898	839573
T	454m SW	Unspecified Tank	1909 - 1925	884737
R	461m W	Boat Yard	1909 - 1925	899091
R	468m SW	Boat Yard	1925	871776
R	469m W	Unspecified Quarry	1898	816597
Q	471m SW	Refuse Heap	1974	828722
U	474m S	Unspecified Tanks	1909	815063
V	474m SW	Unspecified Tank	1965 - 1974	956842
15	474m NW	Unspecified Ground Workings	1949	844332
16	478m NE	Cuttings	1925	795597
17	494m NW	Refuse Heap	1991	828723
18	496m NW	Railway Station	1925	822885
19	498m SE	Unspecified Tanks	1925	815127

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.2 Historical tanks

**Records within 500m**

**164**

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.



Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	8m SW	Tanks	1955 - 1990	124238
A	9m SW	Tanks	1955 - 1972	126859
A	12m SW	Tanks	1936	146906
A	31m SW	Tanks	1955 - 1972	145214
A	36m SW	Tanks	1955 - 1990	133596
A	37m SW	Unspecified Tank	1955 - 1972	128024
E	38m SE	Tanks	1955 - 1984	129608
E	38m SE	Tanks	1972 - 1993	134500
E	38m SE	Tanks	1936	149279
A	39m SW	Tanks	1990	132364
A	39m SW	Tanks	1936	146686
E	41m SE	Unspecified Tank	1990	112301
A	58m SW	Tanks	1955	123875
A	58m SW	Tanks	1955 - 1972	141549
A	59m SW	Tanks	1955 - 1972	137922
A	59m SW	Tanks	1955	126948
A	60m SW	Tanks	1990	148500
A	62m SW	Tanks	1936	137093
A	62m SW	Tanks	1955	124122
A	62m SW	Tanks	1955 - 1972	123904
A	62m SW	Tanks	1955 - 1990	139679
A	62m SW	Tanks	1955 - 1972	137747
A	63m SW	Tanks	1990	146522
A	65m SW	Unspecified Tank	1936	112308
A	67m SW	Tanks	1990	140496
A	68m SW	Tanks	1955 - 1972	139240
A	71m SW	Tanks	1955	131263





ID	Location	Land use	Dates present	Group ID
A	72m SW	Tanks	1955	122877
A	75m SW	Tanks	1936	129330
A	76m SW	Tanks	1990	142138
A	85m S	Unspecified Tank	1955	147866
A	87m S	Unspecified Tank	1955	112313
A	87m S	Tanks	1955 - 1984	142461
A	91m S	Tanks	1936	132032
A	93m SW	Unspecified Tank	1984	112309
A	101m SW	Tanks	1955	135040
A	101m SW	Unspecified Tank	1955	112312
A	104m S	Unspecified Tank	1955	112305
A	106m SW	Unspecified Tank	1955	112310
A	113m S	Unspecified Tank	1955	112314
A	114m SW	Unspecified Tank	1955	142140
A	115m SW	Unspecified Tank	1955 - 1984	139342
A	122m SW	Tanks	1955	131283
A	128m S	Unspecified Tank	1955	112306
A	130m SW	Unspecified Tank	1955 - 1984	147492
A	134m SW	Tanks	1955	127619
C	148m SE	Tanks	1984	105543
A	149m S	Unspecified Tank	1955	112316
A	155m SW	Unspecified Tank	1955	138768
A	155m SW	Unspecified Tank	1955	135543
A	156m SW	Unspecified Tank	1984	127716
A	161m SW	Unspecified Tank	1993	112311
C	162m SE	Tanks	1984 - 1993	147787
A	162m SW	Tanks	1984 - 1993	141162
A	164m SW	Unspecified Tank	1955	126173



ID	Location	Land use	Dates present	Group ID
A	168m SW	Tanks	1955	135167
A	170m SW	Unspecified Tank	1972	135189
A	170m SW	Unspecified Tank	1990	137304
A	171m SW	Unspecified Tank	1912 - 1936	133784
A	175m SW	Tanks	1993	143738
A	176m SW	Tanks	1984	135752
A	179m SW	Tanks	1955 - 1972	138801
A	180m SW	Tanks	1993	148055
C	181m SE	Tanks	1955	141587
A	181m SW	Tanks	1990	139647
C	182m SE	Tanks	1955	126210
H	185m SE	Unspecified Tank	1955	112307
A	185m SW	Tanks	1993	123675
A	185m SW	Tanks	1955	135654
A	185m SW	Unspecified Tank	1984 - 1993	140664
A	185m SW	Tanks	1993	128118
A	186m SW	Tanks	1984	145287
A	186m SW	Tanks	1955	139842
C	187m SE	Tanks	1984 - 1993	132907
A	189m SW	Tanks	1955	131647
H	190m SE	Unspecified Tank	1955	112304
A	194m SW	Unspecified Tank	1955	133451
A	194m SW	Unspecified Tank	1993	112298
A	194m SW	Unspecified Tank	1955 - 1972	139423
A	194m SW	Tanks	1984 - 1993	129624
C	200m SE	Unspecified Tank	1955 - 1984	143209
A	201m SW	Tanks	1993	122346
A	201m SW	Tanks	1984	141745



ID	Location	Land use	Dates present	Group ID
A	201m SW	Unspecified Tank	1984 - 1993	133283
A	201m SW	Unspecified Tank	1955	112299
A	201m SW	Tanks	1955	105489
A	203m SW	Tanks	1955	133939
A	203m SW	Unspecified Tank	1955	112300
A	204m SW	Tanks	1955	105497
A	204m SW	Tanks	1993	138966
A	204m SW	Tanks	1955	144983
A	205m SW	Tanks	1955	142391
A	206m SW	Tanks	1984 - 1993	125702
A	207m SW	Tanks	1993	145239
A	207m SW	Tanks	1984	139964
A	211m SW	Unspecified Tank	1984 - 1993	130698
A	213m SW	Tanks	1993	127636
A	214m SW	Tanks	1993	105501
A	215m SW	Tanks	1972 - 1990	129393
A	215m SW	Tanks	1955	134384
A	231m SW	Tanks	1990	144686
A	232m SW	Tanks	1955 - 1993	130118
A	234m SW	Tanks	1984 - 1993	126335
A	236m SW	Tanks	1993	105499
A	250m SW	Unspecified Tank	1984 - 1993	128305
A	251m SW	Unspecified Tank	1993	112286
C	252m SE	Tanks	1955	105496
C	252m SE	Unspecified Tank	1955 - 1972	141926
A	255m SW	Unspecified Tank	1993	112285
C	256m SE	Unspecified Tank	1955 - 1972	146415
A	268m SW	Tanks	1984	105500



ID	Location	Land use	Dates present	Group ID
A	268m SW	Tanks	1984	105498
A	277m SW	Tanks	1990	105495
A	282m SW	Unspecified Tank	1984 - 1993	148306
7	302m NW	Tanks	1972 - 1990	148416
A	305m SW	Unspecified Tank	1984	112292
A	306m W	Tanks	1990	105494
A	311m SW	Unspecified Tank	1955	142986
A	314m W	Tanks	1990	105491
A	315m SW	Unspecified Tank	1984	112291
A	319m W	Tanks	1990	105492
A	320m W	Unspecified Tank	1955	134691
A	322m W	Unspecified Tank	1955	129045
A	323m SW	Tanks	1993	139422
A	327m SW	Tanks	1990	105493
A	330m W	Tanks	1993	105533
A	331m SW	Tanks	1984	148953
A	335m SW	Tanks	1984	105490
A	335m SW	Tanks	1993	138352
A	338m W	Tanks	1993	129024
A	338m W	Tanks	1984 - 1988	133187
A	343m W	Unspecified Tank	1955	128810
A	343m W	Unspecified Tank	1955	122560
A	345m W	Tanks	1988	133557
A	349m W	Tanks	1962 - 1993	129367
A	349m W	Tanks	1984 - 1988	124930
A	351m SW	Tanks	1993	142626
A	353m SW	Tanks	1993	136087
10	354m S	Unspecified Tank	1912	112315



ID	Location	Land use	Dates present	Group ID
A	354m W	Unspecified Tank	1955	139588
A	357m W	Tanks	1962	143151
A	359m W	Tanks	1912	132438
A	361m W	Unspecified Tank	1874	112297
A	365m W	Tanks	1955 - 1993	127776
A	365m W	Tanks	1955 - 1962	127582
A	366m SW	Tanks	1993	130165
A	367m W	Unspecified Tank	1874	112296
A	368m SW	Tanks	1985 - 1995	131511
A	369m SW	Tanks	1995	132214
A	372m W	Tanks	1988	133310
A	373m W	Unspecified Tank	1874 - 1912	138258
A	374m W	Unspecified Tank	1962	112293
A	377m W	Gasometer	1874 - 1912	148791
M	387m SE	Tanks	1955	141473
A	402m W	Unspecified Tank	1984 - 1993	123001
A	412m W	Unspecified Tank	1955	133245
A	413m W	Unspecified Tank	1955	146215
O	421m SW	Unspecified Tank	1927 - 1936	130567
T	454m SW	Unspecified Tank	1912 - 1936	142928
U	472m S	Unspecified Tank	1912	129426
U	472m S	Unspecified Tank	1936	134546
U	472m S	Unspecified Tank	1927	141616
14	474m SE	Unspecified Tank	1993	112319
V	477m SW	Unspecified Tank	1964	112288

*This data is sourced from Ordnance Survey / Groundsure.*



### 1.3 Historical energy features

**Records within 500m** **13**

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	57m SW	Electricity Substation	1955	82711
G	69m N	Electricity Substation	1955 - 1972	68662
A	139m SW	Electricity Substation	1990	60709
H	163m SE	Electricity Substation	1984	63962
H	164m SE	Electricity Substation	1955 - 1993	83329
H	164m SE	Electricity Substation	1955	65654
A	195m SW	Electricity Substation	1955	84410
C	207m SE	Electricity Substation	1984 - 1993	69246
C	210m SE	Electricity Substation	1955	75948
A	251m SW	Electricity Substation	1984	60710
A	276m SW	Electricity Substation	1955 - 1993	82734
A	277m SW	Electricity Substation	1984	76529
A	377m W	Gasometer	1874 - 1912	72185

*This data is sourced from Ordnance Survey / Groundsure.*

### 1.4 Historical petrol stations

**Records within 500m** **0**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*



## 1.5 Historical garages

Records within 500m

0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.6 Historical military land

Records within 500m

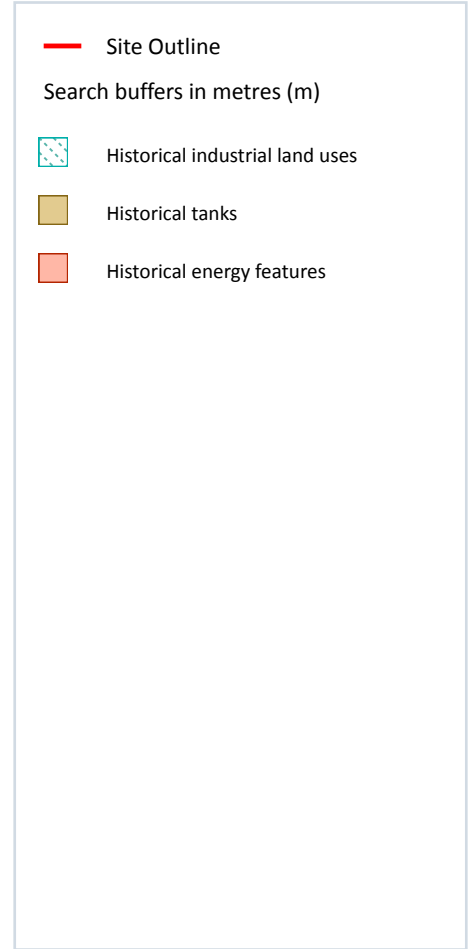
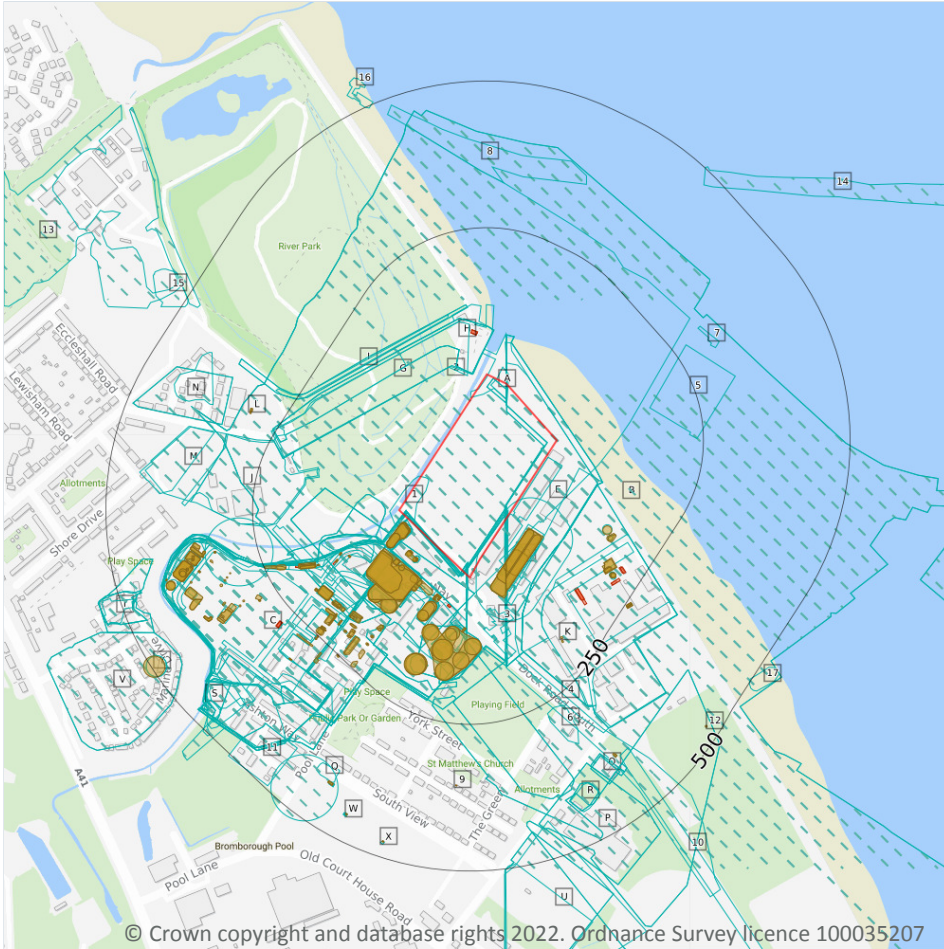
0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

*This data is sourced from Ordnance Survey / Groundsure / other sources.*



## 2 Past land use - un-grouped



### 2.1 Historical industrial land uses

**Records within 500m** **171**

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 28**

ID	Location	Land Use	Date	Group ID
1	On site	Refuse Heap	1989	828721
2	On site	Timber Yard	1925	796290
A	On site	Railway Sidings	1974	844345



ID	Location	Land Use	Date	Group ID
A	On site	Railway Sidings	1965	844434
A	On site	Railway Sidings	1949	844531
B	On site	Railway Sidings	1925	844488
B	On site	Docks	1925	802216
C	On site	Candle Works	1938	922082
C	On site	Railway Sidings	1938	889896
C	On site	Unspecified Works	1989	949837
C	On site	Unspecified Works	1974	917583
C	On site	Unspecified Depot	1974	855473
C	On site	Railway Sidings	1974	970035
C	On site	Dock	1974	951669
C	On site	Railway Sidings	1965	970035
C	On site	Unspecified Depot	1965	855473
C	On site	Unspecified Works	1965	917583
C	On site	Candle Works	1949	968746
C	On site	Railway Sidings	1949	970035
C	On site	Dock	1936	885368
C	On site	Railway Sidings	1936	847244
C	On site	Candle Works	1936	903509
C	On site	Dock	1936	885368
D	On site	Storage Tanks	1949	822282
E	On site	Dock	1991	942487
E	On site	Dock	1975	951669
E	On site	Dock	1965	942487
E	On site	Dock	1949	886490
F	On site	Railway Sidings	1949	970035
G	On site	Dock	1989	942487
E	2m SE	Unspecified Warehouse	1949	807120



ID	Location	Land Use	Date	Group ID
C	4m SW	Unspecified Tanks	1989	875976
C	7m SW	Unspecified Tanks	1974	898986
C	7m SW	Unspecified Tanks	1965	898986
C	7m SW	Unspecified Tanks	1949	898986
C	9m SW	Unspecified Tanks	1936	918555
C	10m SW	Unspecified Tanks	1938	898986
G	21m NW	Dock	1949	968983
G	22m NW	Dock	1974	859342
G	22m NW	Dock	1965	859342
H	22m NW	Unspecified Works	1965	830154
G	27m NW	Dock	1938	968983
C	33m SW	Unspecified Tank	1989	974360
C	34m SW	Unspecified Tank	1949	878012
D	37m SE	Unspecified Tanks	1975	850313
C	38m SW	Unspecified Tank	1936	903861
C	39m SW	Unspecified Tank	1938	878012
D	40m SE	Unspecified Tanks	1991	891390
D	41m SE	Unspecified Tanks	1974	850313
C	54m SW	Unspecified Tanks	1974	968438
C	54m SW	Unspecified Tanks	1965	956756
C	54m SW	Unspecified Tanks	1949	852659
C	56m SW	Unspecified Tanks	1936	884526
C	57m SW	Candle Works	1925	898657
D	58m SE	Railway Sidings	1965	970035
C	58m SW	Candle Works	1925	902702
C	58m SW	Railway Sidings	1909	880089
C	58m SW	Candle Works	1909	902702
C	59m SW	Unspecified Tanks	1938	884526



ID	Location	Land Use	Date	Group ID
C	60m SW	Unspecified Works	1898	943861
3	63m SE	Hydraulic Station	1925	837283
C	64m SW	Unspecified Heap	1949	803208
D	65m SE	Railway Buildings	1925	833535
C	66m SW	Unspecified Ground Workings	1938	799730
C	68m SW	Unspecified Tanks	1974	915644
C	68m SW	Unspecified Tanks	1965	915644
C	68m SW	Unspecified Tanks	1949	915644
C	69m SW	Unspecified Tanks	1936	916682
C	70m SW	Railway Sidings	1938	957493
C	71m SW	Unspecified Tanks	1938	957869
C	77m S	Railway Sidings	1936	847244
C	80m SW	Railway Sidings	1925	880089
C	82m S	Hospital	1898	834360
C	84m S	Unspecified Tanks	1974	948377
C	84m S	Unspecified Tanks	1965	948377
C	84m S	Unspecified Tanks	1949	948377
C	84m S	Unspecified Tanks	1936	915770
C	86m SW	Railway Sidings	1925	991893
C	91m S	Unspecified Tanks	1938	896351
F	95m SE	Unspecified Factory	1991	968010
F	95m SE	Unspecified Factory	1975	857411
I	116m NW	Unspecified Ground Workings	1974	910548
I	116m NW	Unspecified Ground Workings	1965	966579
I	117m NW	Unspecified Ground Workings	1989	854741
C	119m S	Unspecified Tanks	1938	956236
F	128m SE	Unspecified Works	1965	830153
F	130m SE	Railway Sidings	1965	889895



ID	Location	Land Use	Date	Group ID
B	147m SE	Unspecified Tanks	1975	815124
J	147m W	Unspecified Works	1974	980045
J	150m NW	Unspecified Works	1989	982578
4	156m SE	Railway Sidings	1975	889895
C	157m SW	Chimney	1965	835694
C	160m SW	Unspecified Tank	1989	824415
B	163m SE	Unspecified Tank	1991	824412
B	163m SE	Unspecified Tanks	1975	815123
C	163m SW	Goods Shed	1925	834662
C	167m SW	Unspecified Tank	1925	964416
5	168m E	Coal Depot	1925	794129
C	169m SW	Unspecified Tank	1925	964416
C	175m SW	Unspecified Tanks	1989	968384
C	175m SW	Unspecified Tanks	1974	957554
C	175m SW	Unspecified Tanks	1965	957554
C	177m SW	Unspecified Tanks	1989	815122
C	182m SW	Unspecified Tanks	1989	815121
B	199m SE	Unspecified Tank	1991	855734
B	199m SE	Unspecified Tank	1975	866909
B	203m SE	Unspecified Tank	1965	910410
C	205m SW	Unspecified Tanks	1989	815120
C	208m SW	Unspecified Covered Tanks	1989	827982
C	224m W	Transit Shed	1925	826519
6	263m SE	Unspecified Pit	1925	839572
7	307m NE	Railway Station	1925	822881
M	317m W	Unspecified Depot	1989	970224
C	318m SW	Unspecified Tanks	1989	815119
8	328m N	Cuttings	1925	795596



ID	Location	Land Use	Date	Group ID
N	336m NW	Unspecified Warehouse	1989	853500
N	336m NW	Unspecified Warehouse	1974	869895
C	338m W	Unspecified Tanks	1989	869400
M	342m NW	Unspecified Depot	1974	987399
C	342m W	Unspecified Tanks	1965	856326
C	357m W	Unspecified Tanks	1974	899054
N	365m NW	Unspecified Heap	1965	803209
C	373m SW	Unspecified Tanks	1989	815118
O	373m SE	Sewage Works	1991	874308
O	373m SE	Sewage Works	1975	968946
P	374m SE	Unspecified Factory	1991	963529
P	374m SE	Unspecified Factory	1975	955953
O	376m SE	Unspecified Works	1965	830158
O	376m SE	Sewage Works	1949	941533
C	377m W	Unspecified Tank	1909	824413
10	396m SE	Railway Sidings	1975	885751
Q	397m SW	Unspecified Quarry	1898	816596
C	398m W	Unspecified Tank	1989	824414
R	399m SE	Unspecified Heap	1991	923586
R	399m SE	Unspecified Heap	1975	970359
Q	399m SW	Unspecified Old Quarry	1909	832907
S	402m SW	Unspecified Ground Workings	1938	799729
R	402m SE	Unspecified Heap	1965	970359
O	409m SE	Pump House	1991	854428
O	409m SE	Pump House	1975	940157
S	412m SW	Unspecified Heap	1936	881094
S	412m SW	Unspecified Heap	1936	881094
11	413m SW	Unspecified Depot	1989	818265



ID	Location	Land Use	Date	Group ID
S	415m SW	Unspecified Pits	1909	811159
Q	421m SW	Unspecified Tank	1938	875616
Q	421m SW	Unspecified Tank	1936	875616
T	428m W	Unspecified Works	1974	905710
T	428m W	Unspecified Works	1965	905710
U	436m S	Engineering Works	1949	811605
U	446m S	Unspecified Works	1991	985503
U	446m S	Unspecified Works	1975	991912
V	449m SW	Unspecified Depot	1974	936138
V	449m SW	Unspecified Depot	1965	936138
W	453m SW	Unspecified Tank	1925	915918
S	454m SW	Unspecified Pit	1898	839573
W	454m SW	Unspecified Tank	1925	884737
W	454m SW	Unspecified Tank	1909	884737
T	461m W	Boat Yard	1925	899091
T	461m W	Boat Yard	1909	899091
T	468m SW	Boat Yard	1925	871776
T	469m W	Unspecified Quarry	1898	816597
S	471m SW	Refuse Heap	1974	828722
X	474m S	Unspecified Tanks	1909	815063
Y	474m SW	Unspecified Tank	1974	956842
Y	474m SW	Unspecified Tank	1965	956842
13	474m NW	Unspecified Ground Workings	1949	844332
14	478m NE	Cuttings	1925	795597
U	493m S	Unspecified Works	1965	991912
15	494m NW	Refuse Heap	1991	828723
16	496m NW	Railway Station	1925	822885
17	498m SE	Unspecified Tanks	1925	815127

*This data is sourced from Ordnance Survey / Groundsure.*



## 2.2 Historical tanks

<b>Records within 500m</b>	<b>242</b>
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Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 28**

ID	Location	Land Use	Date	Group ID
C	8m SW	Tanks	1955	124238
C	9m SW	Tanks	1955	126859
C	9m SW	Tanks	1972	126859
C	9m SW	Tanks	1990	124238
C	12m SW	Tanks	1936	146906
C	31m SW	Tanks	1955	145214
C	31m SW	Tanks	1972	145214
C	36m SW	Tanks	1955	133596
C	37m SW	Tanks	1955	133596
C	37m SW	Tanks	1972	133596
C	37m SW	Unspecified Tank	1955	128024
C	38m SW	Tanks	1990	133596
D	38m SE	Tanks	1955	129608
D	38m SE	Tanks	1972	134500
C	38m SW	Unspecified Tank	1955	128024
C	38m SW	Unspecified Tank	1972	128024
D	38m SE	Tanks	1955	129608
D	38m SE	Tanks	1936	149279
C	39m SW	Tanks	1990	132364
C	39m SW	Tanks	1936	146686
D	40m SE	Tanks	1955	129608
D	40m SE	Tanks	1984	129608
D	40m SE	Tanks	1993	134500



ID	Location	Land Use	Date	Group ID
D	41m SE	Tanks	1955	129608
D	41m SE	Unspecified Tank	1990	112301
D	55m SE	Tanks	1955	129608
C	58m SW	Tanks	1955	123875
C	58m SW	Tanks	1955	141549
C	58m SW	Tanks	1972	141549
C	59m SW	Tanks	1955	137922
C	59m SW	Tanks	1972	137922
C	59m SW	Tanks	1955	126948
C	60m SW	Tanks	1990	148500
C	62m SW	Tanks	1936	137093
C	62m SW	Tanks	1955	124122
C	62m SW	Tanks	1955	123904
C	62m SW	Tanks	1955	139679
C	62m SW	Tanks	1972	123904
C	62m SW	Tanks	1972	139679
C	62m SW	Tanks	1955	137747
C	62m SW	Tanks	1972	137747
C	63m SW	Tanks	1990	139679
C	63m SW	Tanks	1990	146522
C	65m SW	Unspecified Tank	1936	112308
C	67m SW	Tanks	1990	140496
C	68m SW	Tanks	1955	139240
C	68m SW	Tanks	1972	139240
C	71m SW	Tanks	1955	131263
C	72m SW	Tanks	1955	122877
C	75m SW	Tanks	1936	129330
C	76m SW	Tanks	1990	142138





ID	Location	Land Use	Date	Group ID
C	85m S	Unspecified Tank	1955	147866
C	86m S	Unspecified Tank	1955	147866
C	87m S	Tanks	1955	142461
C	87m S	Unspecified Tank	1955	112313
C	91m S	Tanks	1936	132032
C	93m SW	Unspecified Tank	1984	112309
C	101m SW	Tanks	1955	135040
C	101m SW	Unspecified Tank	1955	112312
C	101m SW	Tanks	1984	142461
C	104m S	Unspecified Tank	1955	112305
C	106m SW	Unspecified Tank	1955	112310
C	113m S	Unspecified Tank	1955	112314
C	114m SW	Unspecified Tank	1955	142140
C	115m SW	Unspecified Tank	1955	142140
C	115m SW	Unspecified Tank	1955	139342
C	116m SW	Unspecified Tank	1984	139342
C	122m SW	Tanks	1955	131283
C	122m SW	Tanks	1955	131283
C	128m S	Unspecified Tank	1955	112306
C	130m SW	Unspecified Tank	1955	147492
C	132m SW	Unspecified Tank	1984	147492
C	134m SW	Tanks	1955	127619
C	135m SW	Tanks	1955	127619
B	148m SE	Tanks	1984	105543
C	149m S	Unspecified Tank	1955	112316
C	155m SW	Unspecified Tank	1955	138768
C	155m SW	Unspecified Tank	1955	135543
C	156m SW	Unspecified Tank	1984	127716



ID	Location	Land Use	Date	Group ID
C	161m SW	Unspecified Tank	1993	112311
B	162m SE	Tanks	1984	147787
C	162m SW	Tanks	1984	141162
B	164m SE	Tanks	1993	147787
C	164m SW	Unspecified Tank	1955	126173
C	165m SW	Unspecified Tank	1955	126173
C	168m SW	Tanks	1955	135167
C	168m SW	Tanks	1993	141162
C	170m SW	Tanks	1955	135167
C	170m SW	Unspecified Tank	1972	135189
C	170m SW	Unspecified Tank	1990	137304
C	171m SW	Unspecified Tank	1912	133784
C	171m SW	Unspecified Tank	1927	133784
C	171m SW	Unspecified Tank	1936	133784
C	175m SW	Tanks	1993	143738
C	176m SW	Tanks	1984	135752
C	179m SW	Tanks	1955	138801
C	180m SW	Tanks	1993	148055
C	180m SW	Tanks	1955	138801
C	180m SW	Tanks	1972	138801
B	181m SE	Tanks	1955	141587
C	181m SW	Tanks	1990	139647
B	182m SE	Tanks	1955	126210
K	185m SE	Unspecified Tank	1955	112307
C	185m SW	Tanks	1993	123675
C	185m SW	Unspecified Tank	1993	140664
C	185m SW	Tanks	1955	135654
C	185m SW	Tanks	1993	128118



ID	Location	Land Use	Date	Group ID
C	186m SW	Tanks	1955	135654
C	186m SW	Tanks	1984	145287
C	186m SW	Unspecified Tank	1984	140664
C	186m SW	Tanks	1955	139842
B	187m SE	Tanks	1984	132907
C	189m SW	Tanks	1955	131647
B	189m SE	Tanks	1993	132907
K	190m SE	Unspecified Tank	1955	112304
C	190m SW	Tanks	1955	139842
C	194m SW	Unspecified Tank	1955	133451
C	194m SW	Unspecified Tank	1993	112298
C	194m SW	Unspecified Tank	1955	139423
C	194m SW	Unspecified Tank	1972	139423
C	194m SW	Tanks	1993	129624
C	195m SW	Tanks	1984	129624
B	200m SE	Unspecified Tank	1984	143209
C	201m SW	Tanks	1993	122346
C	201m SW	Tanks	1984	141745
C	201m SW	Unspecified Tank	1993	133283
C	201m SW	Unspecified Tank	1955	112299
C	201m SW	Unspecified Tank	1984	133283
C	201m SW	Tanks	1955	105489
B	201m SE	Unspecified Tank	1955	143209
B	202m SE	Unspecified Tank	1955	143209
C	203m SW	Tanks	1955	133939
C	203m SW	Unspecified Tank	1955	112300
C	204m SW	Tanks	1955	133939
C	204m SW	Tanks	1955	105497



ID	Location	Land Use	Date	Group ID
C	204m SW	Tanks	1993	138966
C	204m SW	Tanks	1955	144983
C	205m SW	Tanks	1955	142391
C	206m SW	Tanks	1984	125702
C	206m SW	Tanks	1993	125702
C	207m SW	Tanks	1993	145239
C	207m SW	Tanks	1984	139964
C	211m SW	Unspecified Tank	1993	130698
C	211m SW	Unspecified Tank	1984	130698
C	213m SW	Tanks	1993	127636
C	214m SW	Tanks	1993	105501
C	215m SW	Tanks	1955	134384
C	215m SW	Tanks	1990	129393
C	218m SW	Tanks	1972	129393
C	231m SW	Tanks	1990	144686
C	232m SW	Tanks	1955	130118
C	233m SW	Tanks	1955	130118
C	234m SW	Tanks	1993	126335
C	234m SW	Tanks	1984	126335
C	236m SW	Tanks	1993	105499
C	238m SW	Tanks	1993	130118
C	250m SW	Unspecified Tank	1984	128305
C	250m SW	Unspecified Tank	1993	128305
C	251m SW	Unspecified Tank	1993	112286
B	252m SE	Tanks	1955	105496
B	252m SE	Unspecified Tank	1972	141926
B	252m SE	Unspecified Tank	1955	141926
C	255m SW	Unspecified Tank	1993	112285



ID	Location	Land Use	Date	Group ID
B	256m SE	Unspecified Tank	1972	146415
B	256m SE	Unspecified Tank	1955	146415
C	268m SW	Tanks	1984	105500
C	268m SW	Tanks	1984	105498
C	277m SW	Tanks	1990	105495
C	282m SW	Unspecified Tank	1993	148306
C	282m SW	Unspecified Tank	1984	148306
L	302m NW	Tanks	1972	148416
L	302m NW	Tanks	1990	148416
C	305m SW	Unspecified Tank	1984	112292
C	306m W	Tanks	1990	105494
C	311m SW	Unspecified Tank	1955	142986
C	311m SW	Unspecified Tank	1955	142986
C	314m W	Tanks	1990	105491
C	315m SW	Unspecified Tank	1984	112291
C	319m W	Tanks	1990	105492
C	320m W	Unspecified Tank	1955	134691
C	322m W	Unspecified Tank	1955	129045
C	323m SW	Tanks	1993	139422
C	327m SW	Tanks	1990	105493
C	330m W	Tanks	1993	105533
C	331m SW	Tanks	1984	148953
C	335m SW	Tanks	1993	138352
C	335m SW	Tanks	1984	105490
C	338m W	Tanks	1993	129024
C	338m W	Tanks	1984	133187
C	338m W	Tanks	1988	133187
C	343m W	Unspecified Tank	1955	128810



ID	Location	Land Use	Date	Group ID
C	343m W	Unspecified Tank	1955	122560
C	345m W	Tanks	1988	133557
C	349m W	Tanks	1962	129367
C	349m W	Tanks	1993	129367
C	349m W	Tanks	1984	124930
C	349m W	Tanks	1988	124930
C	351m SW	Tanks	1993	142626
C	353m SW	Tanks	1993	136087
9	354m S	Unspecified Tank	1912	112315
C	354m W	Unspecified Tank	1955	139588
C	355m W	Unspecified Tank	1955	139588
C	357m W	Tanks	1962	143151
C	359m W	Tanks	1912	132438
C	361m W	Unspecified Tank	1874	112297
C	365m W	Tanks	1955	127776
C	365m W	Tanks	1955	127582
C	365m W	Tanks	1962	127582
C	365m W	Tanks	1993	127776
C	365m W	Tanks	1984	127776
C	365m W	Tanks	1988	127776
C	366m SW	Tanks	1993	130165
C	367m W	Unspecified Tank	1874	112296
C	368m SW	Tanks	1985	131511
C	368m SW	Tanks	1995	131511
C	368m SW	Tanks	1995	131511
C	368m SW	Tanks	1991	131511
C	369m SW	Tanks	1995	132214
C	369m SW	Tanks	1995	132214



ID	Location	Land Use	Date	Group ID
C	372m W	Tanks	1988	133310
C	373m W	Unspecified Tank	1912	138258
C	373m W	Unspecified Tank	1874	138258
C	374m W	Unspecified Tank	1962	112293
C	377m W	Gasometer	1912	148791
C	379m W	Gasometer	1874	148791
O	387m SE	Tanks	1955	141473
O	390m SE	Tanks	1955	141473
C	402m W	Unspecified Tank	1993	123001
C	403m W	Unspecified Tank	1984	123001
C	403m W	Unspecified Tank	1988	123001
C	412m W	Unspecified Tank	1955	133245
C	413m W	Unspecified Tank	1955	146215
Q	421m SW	Unspecified Tank	1927	130567
Q	421m SW	Unspecified Tank	1936	130567
W	454m SW	Unspecified Tank	1912	142928
W	454m SW	Unspecified Tank	1927	142928
W	454m SW	Unspecified Tank	1936	142928
X	472m S	Unspecified Tank	1912	129426
X	472m S	Unspecified Tank	1927	141616
X	472m S	Unspecified Tank	1936	134546
12	474m SE	Unspecified Tank	1993	112319
Y	477m SW	Unspecified Tank	1964	112288

*This data is sourced from Ordnance Survey / Groundsure.*



## 2.3 Historical energy features

### Records within 500m

**23**

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 28**

ID	Location	Land Use	Date	Group ID
C	57m SW	Electricity Substation	1955	82711
C	57m SW	Electricity Substation	1955	82711
H	69m N	Electricity Substation	1955	68662
H	69m N	Electricity Substation	1972	68662
H	70m N	Electricity Substation	1955	68662
C	139m SW	Electricity Substation	1990	60709
F	163m SE	Electricity Substation	1984	63962
F	164m SE	Electricity Substation	1955	83329
F	164m SE	Electricity Substation	1955	65654
F	165m SE	Electricity Substation	1993	83329
C	195m SW	Electricity Substation	1955	84410
C	195m SW	Electricity Substation	1955	84410
B	207m SE	Electricity Substation	1984	69246
B	209m SE	Electricity Substation	1993	69246
B	210m SE	Electricity Substation	1955	75948
B	210m SE	Electricity Substation	1955	75948
C	251m SW	Electricity Substation	1984	60710
C	276m SW	Electricity Substation	1955	82734
C	277m SW	Electricity Substation	1993	82734
C	277m SW	Electricity Substation	1984	76529
C	277m SW	Electricity Substation	1955	82734
C	377m W	Gasometer	1912	72185
C	379m W	Gasometer	1874	72185





*This data is sourced from Ordnance Survey / Groundsure.*

## 2.4 Historical petrol stations

**Records within 500m**

**0**

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.5 Historical garages

**Records within 500m**

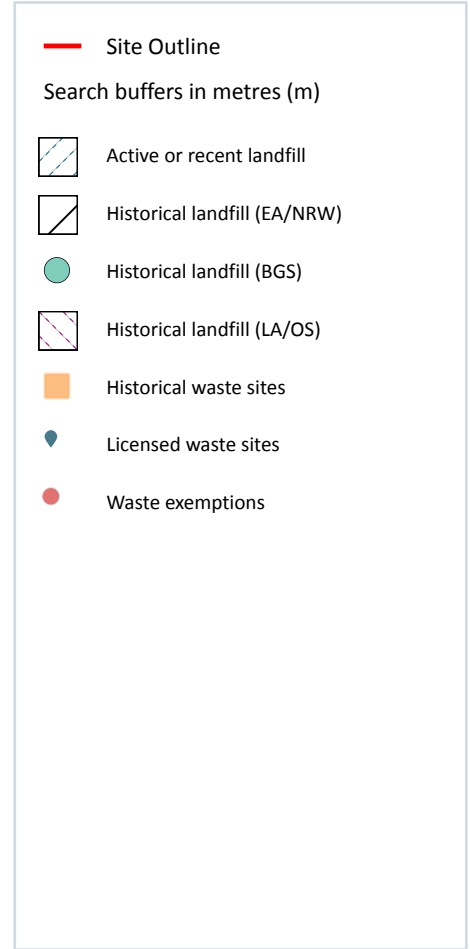
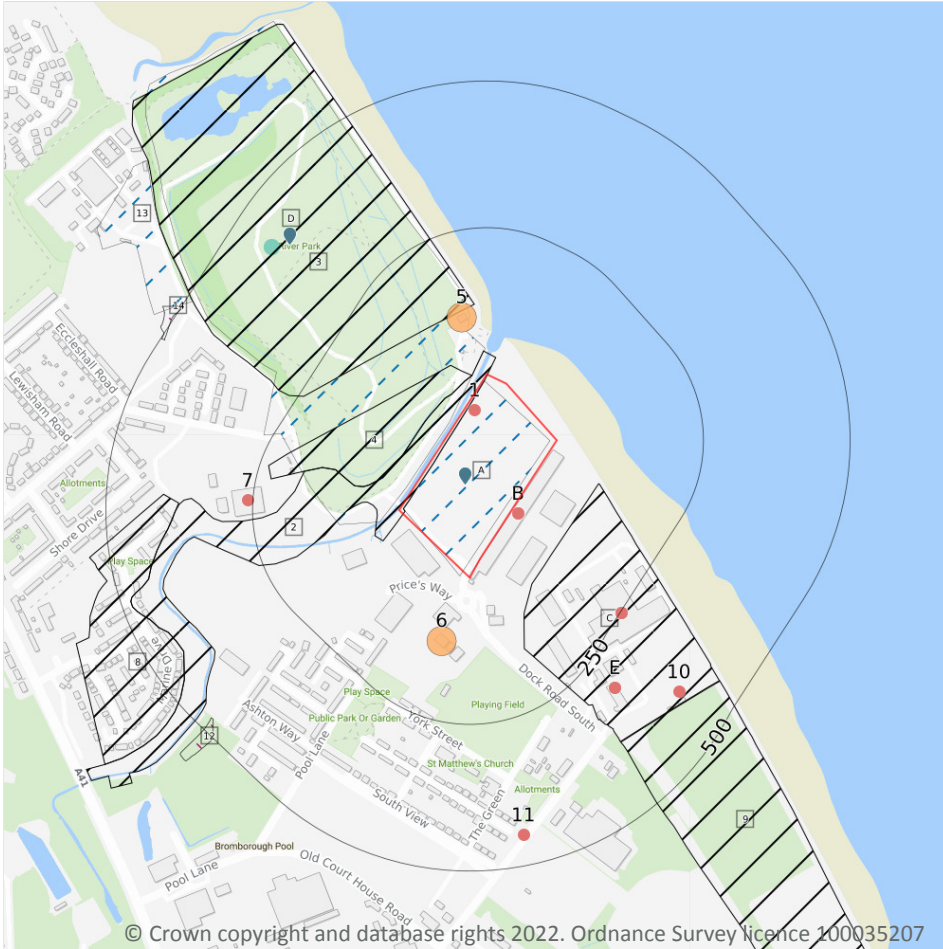
**0**

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

*This data is sourced from Ordnance Survey / Groundsure.*



### 3 Waste and landfill



#### 3.1 Active or recent landfill

**Records within 500m** **3**

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on **page 46**

ID	Location	Details	
A	On site	<p><b>Operator: Biffa Waste Services Limited</b>  <b>Site Address: Dock Road South, Bromborough, Merseyside, CH62 4SQ</b></p>	<p><b>WML Number: 53704</b>  <b>EPR Reference: BIF006</b>  <b>Landfill type: A05: Landfill taking Non-Biodegradable Wastes</b>  <b>Status: Closure</b>  <b>IPPC Reference: -</b>  <b>EPR Number: EA/EPR/GB3103FD/T001</b></p>



ID	Location	Details	
3	9m NW	Operator: Biffa Waste Services Limited Site Address: Bromborough Dock North Landfill, Dock Road South, Bromborough, Merseyside, CH62 4SQ	WML Number: 53554 EPR Reference: BIF008 Landfill type: A01: Co-Disposal Landfill Site Status: Closure IPPC Reference: - EPR Number: EA/EPR/GB3103GY/T001
13	489m NW	Operator: United Utilities Water Limited Site Address: Bolton Road East, Wirral, Merseyside, CH62 4RU	WML Number: 53982 EPR Reference: NWW013 Landfill type: A05: Landfill taking Non-Biodegradeable Wastes Status: Closure IPPC Reference: - EPR Number: EA/EPR/XP3791CG/V003

This data is sourced from the Environment Agency and Natural Resources Wales.

### 3.2 Historical landfill (BGS records)

#### Records within 500m

**1**

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

Features are displayed on the Waste and landfill map on **page 46**

ID	Location	Address	BGS Number	Risk	Waste Type
D	426m NW	North Reclamation Area, Bebington, Wirral	883	Risk to major and minor aquifer	N/A

This data is sourced from the British Geological Survey.

### 3.3 Historical landfill (LA/mapping records)

#### Records within 500m

**2**

Landfill sites identified from Local Authority records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 46**

ID	Location	Site address	Source	Data type
12	477m SW	Refuse Tip	1963 mapping	Polygon
14	493m NW	Refuse Tip	1993 mapping	Polygon

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.



### 3.4 Historical landfill (EA/NRW records)

#### Records within 500m

6

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on **page 46**

ID	Location	Details		
2	On site	Site Address: Dibbinsdale Brook / Bromborough Pool, Wirral, Merseyside Licence Holder Address: -	Waste Licence: - Site Reference: GDO M195 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded 01/06/1989 Last Recorded: -
4	20m NW	Site Address: Bromborough Dock and North Reclamation Area, Wirral, Merseyside Licence Holder Address: -	Waste Licence: - Site Reference: 30335/M01, 30335/05, GDO M122, 355/05 Waste Type: Inert, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Waste Management Limited Licence Holder: UK Waste Management Limited First Recorded 01/01/1994 Last Recorded: -
C	97m SE	Site Address: Graving Dock No.1, South Reclamation Area, West Float, Graving Dock, Merseyside Licence Holder Address: Dock Road, Birkenhead	Waste Licence: - Site Reference: 182/05, GDO 215 Waste Type: Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: Joseph and Company First Recorded - Last Recorded: -
D	116m NW	Site Address: North Reclamation Area, Bromborough Dock, Wirral, Merseyside Licence Holder Address: Lever House, Port Sunlight, Merseyside	Waste Licence: Yes Site Reference: M096 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: UML Limited Licence Holder: UML Limited, Lever House, Bebington First Recorded 31/12/1931 Last Recorded: 31/12/1983
8	376m W	Site Address: On Par Golf Club, Rear of 34-84 Shore Drive, New Ferry, Merseyside Licence Holder Address: The Sheelings, Rake Lane, Helsby, Cheshire	Waste Licence: Yes Site Reference: 423/05, GDO 233 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 08/12/1992 Licence Surrender: -	Operator: - Licence Holder: Mr Allan Whitby First Recorded - Last Recorded: -



ID	Location	Details		
9	380m SE	Site Address: Lubrizol Ltd Landfill Site, Dock Road South, Wirral, Merseyside Licence Holder Address: Dock Road South, Wirral, Merseyside	Waste Licence: Yes Site Reference: - Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: NR1/L/LLT004 Licence Issue: 10/07/1987 Licence Surrender: -	Operator: Lubrizol Ltd Licence Holder: Lubrizol Ltd First Recorded - Last Recorded: -

This data is sourced from the Environment Agency and Natural Resources Wales.

### 3.5 Historical waste sites

<b>Records within 500m</b>	<b>2</b>
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Waste site records derived from Local Authority planning records and high detail historical mapping.

Features are displayed on the Waste and landfill map on **page 46**

ID	Location	Address	Further Details	Date
5	81m N	Site Address: Bromborough Dock Landfill Site, Bromborough, WIRRAL, Merseyside, CH62 7AB	Type of Site: Waste Transfer Station Planning application reference: APP/97/5927 Description: Facility for transfer of street cleansing waste for disposal on Bromborough Landfill Site. Includes hardcore ramp and contaminated surface water containment tank. An application (ref: APP/97/5927) for Detailed Planning permission was submitted to Wirral M.B.C. on 13th June 1997. Data source: Historic Planning Application Data Type: Point	-
6	93m SW	Site Address: Bromborough Depot, Dock Road, South, Bromborough, WIRRAL, Merseyside, CH62 4SR	Type of Site: Waste Recycle Unit Planning application reference: APP/97/5784 Description: Comprises materials recycling facility, new garage, weighbridges, vehicle washdown area, MOT ramps, vehicle parking and skip/container storage. Construction - external, internal refurbishment. An application (ref: APP/97/5784) for Detailed Planning permission was granted by Wirral M.B.C. on 25th July 1997. We are advised the scheme is currently being held in abeyance, ( 21/06/2000 ). Data source: Historic Planning Application Data Type: Point	-

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.



### 3.6 Licensed waste sites

Records within 500m

9

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on **page 46**

ID	Location	Details		
A	On site	<b>Site Name:</b> South Bromborough Dock Road Inert Landfill <b>Site Address:</b> South Bromborough Dock Road, Off New Chester Road, Bromborough, Wirral <b>Correspondence Address:</b> Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW	<b>Type of Site:</b> Landfill taking Non-Biodegradable Wastes <b>Size:</b> >= 75000 tonnes <b>Environmental Permitting Regulations (Waste) Licence Number:</b> UKW006 <b>EPR reference:</b> - <b>Operator:</b> Uk Waste Management Ltd <b>Waste Management licence No:</b> 53704 <b>Annual Tonnage:</b> 83333.33	<b>Issue Date:</b> 28/07/1993 <b>Effective Date:</b> - <b>Modified:</b> - <b>Surrendered Date:</b> - <b>Expiry Date:</b> - <b>Cancelled Date:</b> - <b>Status:</b> Issued
A	On site	<b>Site Name:</b> Bromborough Dock South Inert Landfill <b>Site Address:</b> Dock Road South, Bromborough, Wirral <b>Correspondence Address:</b> Rixton Old Hall, Manchester Road, Rixton, Warrington, WA3 6EW	<b>Type of Site:</b> Landfill taking Non-Biodegradable Wastes <b>Size:</b> 25000 tonnes <b>Environmental Permitting Regulations (Waste) Licence Number:</b> UKW006 <b>EPR reference:</b> - <b>Operator:</b> Uk Waste Management Ltd <b>Waste Management licence No:</b> 53704 <b>Annual Tonnage:</b> 83333	<b>Issue Date:</b> 28/07/1993 <b>Effective Date:</b> - <b>Modified:</b> - <b>Surrendered Date:</b> - <b>Expiry Date:</b> - <b>Cancelled Date:</b> - <b>Status:</b> Closure
A	On site	<b>Site Name:</b> Bromborough Dock South Inert Landfill <b>Site Address:</b> Dock Road South, Bromborough, Merseyside, CH62 4SQ <b>Correspondence Address:</b> -	<b>Type of Site:</b> Landfill taking Non-Biodegradable Wastes <b>Size:</b> 25000 tonnes <b>Environmental Permitting Regulations (Waste) Licence Number:</b> UKW006 <b>EPR reference:</b> EA/EPR/UP3596CH/A001 <b>Operator:</b> U K Waste Management Ltd <b>Waste Management licence No:</b> 53704 <b>Annual Tonnage:</b> 83333.33	<b>Issue Date:</b> 28/07/1993 <b>Effective Date:</b> - <b>Modified:</b> - <b>Surrendered Date:</b> - <b>Expiry Date:</b> - <b>Cancelled Date:</b> - <b>Status:</b> Closure



ID	Location	Details		
A	On site	<b>Site Name: Bromborough Dock South Inert Landfill</b> <b>Site Address: Dock Road South, Bromborough, Merseyside, CH62 4SQ</b> <b>Correspondence Address: -</b>	<b>Type of Site: Landfill taking Non-Biodegradable Wastes</b> <b>Size: 25000 tonnes</b> <b>Environmental Permitting Regulations (Waste) Licence Number: BIF006</b> <b>EPR reference: EA/EPR/GB3103FD/T001</b> <b>Operator: Biffa Waste Services Limited</b> <b>Waste Management licence No: 53704</b> <b>Annual Tonnage: 83333.333</b>	<b>Issue Date: 28/07/1993</b> <b>Effective Date: 05/06/2018</b> <b>Modified: -</b> <b>Surrendered Date: -</b> <b>Expiry Date: -</b> <b>Cancelled Date: -</b> <b>Status: Closure</b>
A	On site	<b>Site Name: Bromborough Dock South Inert Landfill</b> <b>Site Address: Dock Road South, Bromborough, Merseyside, CH62 4SQ</b> <b>Correspondence Address: -</b>	<b>Type of Site: Landfill taking Non-Biodegradable Wastes</b> <b>Size: &gt;= 75000 tonnes</b> <b>Environmental Permitting Regulations (Waste) Licence Number: BIF006</b> <b>EPR reference: EA/EPR/GB3103FD/T001</b> <b>Operator: Biffa Waste Services Limited</b> <b>Waste Management licence No: 53704</b> <b>Annual Tonnage: 83333</b>	<b>Issue Date: 28/07/1993</b> <b>Effective Date: 05/06/2018</b> <b>Modified: -</b> <b>Surrendered Date: -</b> <b>Expiry Date: -</b> <b>Cancelled Date: -</b> <b>Status: Closure</b>
D	411m NW	<b>Site Name: North Bromborough Dock Road Landfill</b> <b>Site Address: North Bromborough Dock Road, Bromborough, Wirral</b> <b>Correspondence Address: Rixton Old Hall, Manchester Road, Rixton, Warrington, Cheshire, WA3 6EW</b>	<b>Type of Site: Co-Disposal Landfill Site</b> <b>Size: &gt;= 75000 tonnes</b> <b>Environmental Permitting Regulations (Waste) Licence Number: UKW005</b> <b>EPR reference: -</b> <b>Operator: U K Waste Management Ltd</b> <b>Waste Management licence No: 53554</b> <b>Annual Tonnage: 8333.33</b>	<b>Issue Date: 05/06/1992</b> <b>Effective Date: -</b> <b>Modified: -</b> <b>Surrendered Date: -</b> <b>Expiry Date: -</b> <b>Cancelled Date: -</b> <b>Status: Issued</b>



ID	Location	Details		
D	411m NW	Site Name: Bromborough Dock North Landfill Site Site Address: Bromborough Dock North Landfill, Dock Road South, Bromborough, Merseyside, CH62 4SQ Correspondence Address: -	Type of Site: Hazardous Merchant LF Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: UKW005 EPR reference: EA/EPR/EP3892CV/V002 Operator: U K Waste Management Ltd Waste Management licence No: 53554 Annual Tonnage: 0	Issue Date: 05/06/1992 Effective Date: - Modified: 25/03/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
D	411m NW	Site Name: Bromborough Dock North Landfill Site Site Address: Bromborough Dock North Landfill, Dock Road South, Bromborough, Merseyside, CH62 4SQ Correspondence Address: -	Type of Site: Co-Disposal Landfill Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: UKW005 EPR reference: EA/EPR/EP3892CV/V002 Operator: U K Waste Management Ltd Waste Management licence No: 53554 Annual Tonnage: 8333.33	Issue Date: 05/06/1992 Effective Date: - Modified: 25/03/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
D	411m NW	Site Name: Bromborough Dock North Landfill Site Site Address: Bromborough Dock North Landfill, Dock Road South, Bromborough, Merseyside, CH62 4SQ Correspondence Address: -	Type of Site: Co-Disposal Landfill Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BIF008 EPR reference: EA/EPR/GB3103GY/T001 Operator: Biffa Waste Services Limited Waste Management licence No: 53554 Annual Tonnage: 8333	Issue Date: 05/06/1992 Effective Date: 05/06/2018 Modified: 25/03/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Closure

*This data is sourced from the Environment Agency and Natural Resources Wales.*





### 3.7 Waste exemptions

Records within 500m

14

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 46**

ID	Location	Site	Reference	Category	Sub-Category	Description
<b>1</b>	<b>On site</b>	<b>Mersey Wharf Dock Road South WIRRAL Merseyside CH62 4SF</b>	<b>EPR/VF0639W H/A001</b>	<b>Storing waste exemption</b>	<b>Non-Agricultural Waste Only</b>	<b>Storage of waste in a secure place</b>
B	13m SE	-	WEX263101	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	13m SE	DOCK ROAD SOUTH, WIRRAL, CH62 4SF	WEX105648	Storing waste exemption	Not on a farm	Storage of waste in secure containers
B	13m SE	DOCK ROAD SOUTH, WIRRAL, CH62 4SF	WEX105648	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	13m SE	DOCK ROAD SOUTH, WIRRAL, CH62 4SF	WEX105648	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
C	252m SE	DOCK ROAD NORTH, WIRRAL, CH62 4AG	WEX243392	Using waste exemption	Not on a farm	Use of waste in construction
C	252m SE	DOCK ROAD NORTH, WIRRAL, CH62 4AG	WEX243392	Treating waste exemption	Not on a farm	Recovery of scrap metal
C	252m SE	DOCK ROAD NORTH, WIRRAL, CH62 4AG	WEX243392	Storing waste exemption	Not on a farm	Storage of waste in secure containers
C	252m SE	DOCK ROAD NORTH, WIRRAL, CH62 4AG	WEX243392	Storing waste exemption	Not on a farm	Storage of waste in a secure place
7	259m W	DOCK ROAD NORTH WIRRAL CH62 4LN	WEX007970	Using waste exemption	Not on a farm	Use of waste in construction
E	311m SE	Mersey Wharf 1 (STOR), Mersey Wharf Business Park, Dock Road South, Wirral, CH62 4SU	WEX236931	Storing waste exemption	Not on a farm	Storage of waste in secure containers
E	311m SE	Mersey wharf power station, Mersey wharf business park, Dock road south, Wirral, CH62 4SU	WEX135051	Storing waste exemption	Not on a farm	Storage of waste in secure containers

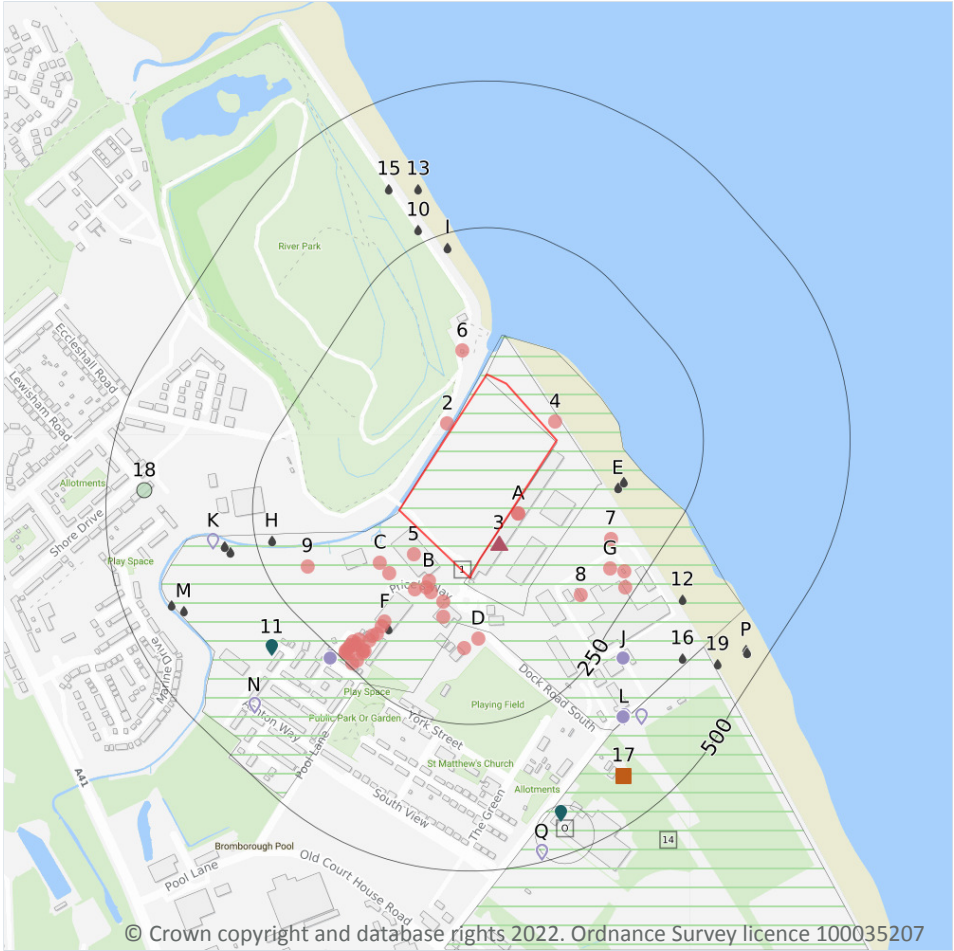


ID	Location	Site	Reference	Category	Sub-Category	Description
10	406m SE	-	WEX005256	Disposing of waste exemption	Not on a farm	Disposal by incineration
11	449m S	Ennovor Dock Road South Bromborough Wirral CH62 4SH	EPR/ZF0104M U/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## 4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Control of Major Accident Hazards
- ▲ Hazardous substance storage/usage
- Historical licensed industrial activities
- ⬮ Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollutant release to public sewer
- Pollution Incidents (EA/NRW)

### 4.1 Recent industrial land uses

**Records within 250m** **41**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 55**

ID	Location	Company	Address	Activity	Category
2	11m NW	Bromborough Dock Landfill Scheme - Landfill Gas (BEIS)	Dock Road South, Bromborough, Merseyside, CH62	Energy Production	Industrial Features

ID	Location	Company	Address	Activity	Category
A	13m SE	Mersey Wharf	Dock Road South, Bromborough, Merseyside, CH62 4SF	Distribution and Haulage	Transport, Storage and Delivery
A	13m SE	Ultrromex Ltd	Unit 2f Mersey Wharf Business Park, Dock Road South, Bromborough, Merseyside, CH62 4SF	Recycling, Reclamation and Disposal	Recycling Services
4	19m NE	Mooring Post	Merseyside, CH62	Moorings and Unloading Facilities	Water
5	38m SW	Capital Reinforcing Ireland Ltd	1 Bromborough Pool Business Park, Prices Way, Bromborough, Merseyside, CH62 4LP	Metals Manufacturers, Fabricators and Stockholders	Industrial Products
B	52m SW	Electricity Sub Station	Merseyside, CH62	Electrical Features	Infrastructure and Facilities
6	58m NW	Electricity Sub Station	Merseyside, CH62	Electrical Features	Infrastructure and Facilities
B	61m SW	Electricity Sub Station	Merseyside, CH62	Electrical Features	Infrastructure and Facilities
B	64m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
B	64m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
B	79m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
B	81m SW	M V R Services	Dock Road South, Bromborough, Merseyside, CH62 4SR	Vehicle Repair, Testing and Servicing	Repair and Servicing
C	87m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
C	89m SW	Business Park	Merseyside, CH62	Business Parks and Industrial Estates	Industrial Features
D	105m S	Pump House	Merseyside, CH62	Water Pumping Stations	Industrial Features
D	121m S	Electricity Sub Station	Merseyside, CH62	Electrical Features	Infrastructure and Facilities
F	155m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
F	164m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
7	168m SE	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
8	177m SE	Electricity Sub Station	Merseyside, CH62	Electrical Features	Infrastructure and Facilities
F	179m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
9	184m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
F	187m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
G	195m SE	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
F	196m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
F	207m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
F	215m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
F	215m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
F	215m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
F	215m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
G	217m SE	Electricity Sub Station	Merseyside, CH62	Electrical Features	Infrastructure and Facilities
F	218m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
F	219m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
F	223m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
F	232m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
G	234m SE	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
F	235m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
F	236m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
F	236m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
F	239m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features
F	245m SW	Tank	Merseyside, CH62	Tanks (Generic)	Industrial Features

*This data is sourced from Ordnance Survey.*

## 4.2 Current or recent petrol stations

**Records within 500m**

**0**

Open, closed, under development and obsolete petrol stations.

*This data is sourced from Experian.*

## 4.3 Electricity cables

**Records within 500m**

**0**

High voltage underground electricity transmission cables.

*This data is sourced from National Grid.*

## 4.4 Gas pipelines

**Records within 500m**

**0**

High pressure underground gas transmission pipelines.

*This data is sourced from National Grid.*



## 4.5 Sites determined as Contaminated Land

Records within 500m

0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

*This data is sourced from Local Authority records.*

## 4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

4

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

Features are displayed on the Current industrial land use map on **page 55**

ID	Location	Company	Address	Operational status	Tier
1	On site	Unichema Chemicals Ltd	Unichema Chemicals Ltd T/A Uniqema, Poole Lane, Bromborough, CH62 4UF	Historical NIHHS Site	-
A	On site	Sharpness Dock Limited	Sharpness Dock Limited, Mersey Wharf, Dock Road South, Bromborough, Cheshire, CH62 4SF	Current COMAH Site	COMAH Lower Tier Operator
14	357m SE	Lubrizol Ltd	Lubrizol Ltd, Dock Road South, Bromborough, L62 4SH	Historical COMAH Site	-
O	416m S	Lever Bros Ltd	Lever Bros Ltd, Port Sunlight, Wirral, CH62 4ZD	Historical NIHHS Site	-

*This data is sourced from the Health and Safety Executive.*

## 4.7 Regulated explosive sites

Records within 500m

0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

*This data is sourced from the Health and Safety Executive.*



## 4.8 Hazardous substance storage/usage

### Records within 500m

**1**

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

Features are displayed on the Current industrial land use map on **page 55**

ID	Location	Details	
3	12m SE	Application reference number: HSC/02/072725 Application status: Approved Application date: 25/10/2002 Address: Mersey Wharf, Dock Road South, Bromborough, Wirral, Merseyside, England, CH62 4SF	Details: Storage and blending of ammonium nitrate, and storage of salt slags from secondary aluminium foundry. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

*This data is sourced from Local Authority records.*

## 4.9 Historical licensed industrial activities (IPC)

### Records within 500m

**31**

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

Features are displayed on the Current industrial land use map on **page 55**

ID	Location	Details	
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: AK4532	Original Permit Number: IPCAIRAPP Date Approved: 7-2-1994 Effective Date: 16-2-1994 Status: Superseded By Variation
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: AQ7305	Original Permit Number: IPCAPP Date Approved: 12-5-1995 Effective Date: 21-5-1995 Status: Superseded By Variation
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: AT8029	Original Permit Number: IPCMINVAR Date Approved: 1-2-1996 Effective Date: 11-2-1996 Status: Superseded By Variation





ID	Location	Details	
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: AU5335	Original Permit Number: IPCAPP Date Approved: 11-7-1996 Effective Date: 17-7-1996 Status: Superseded By Variation
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: AW8203	Original Permit Number: IPCMINVAR Date Approved: 20-11-1996 Effective Date: 1-12-1996 Status: Superseded By Variation
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: BB3891	Original Permit Number: IPCMINVAR Date Approved: 27-7-1998 Effective Date: 3-8-1998 Status: Superseded By Variation
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: BD4031	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: BD7111	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: BE4894	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: BE9497	Original Permit Number: IPCMINVAR Date Approved: 31-3-1999 Effective Date: 6-4-1999 Status: Superseded By Variation
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: BI1293	Original Permit Number: IPCMINVAR Date Approved: 26-4-2000 Effective Date: 1-5-2000 Status: Superseded By Variation
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: BJ5384	Original Permit Number: IPCMINVAR Date Approved: 16-10-2000 Effective Date: 20-10-2000 Status: Superseded By Variation



ID	Location	Details	
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: BQ2120	Original Permit Number: IPCMINVAR Date Approved: 1-2-2002 Effective Date: 8-2-2002 Status: Superseded By Variation
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: BT3781	Original Permit Number: IPCMINVAR Date Approved: 1-10-2002 Effective Date: 6-10-2002 Status: Superseded By Variation
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: BT9704	Original Permit Number: IPCMINVAR Date Approved: 7-1-2003 Effective Date: 13-1-2003 Status: Superseded By Variation
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: BT9712	Original Permit Number: IPCMINVAR Date Approved: 7-1-2003 Effective Date: 13-1-2003 Status: Superseded By Variation
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: BT9739	Original Permit Number: IPCMINVAR Date Approved: 7-1-2003 Effective Date: 13-1-2003 Status: Superseded By Variation
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: BV7664	Original Permit Number: IPCMINVAR Date Approved: 15-10-2003 Effective Date: 20-10-2003 Status: Revoked - Now Ippc
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: BV7672	Original Permit Number: IPCMINVAR Date Approved: 15-10-2003 Effective Date: 20-10-2003 Status: Revoked - Now Ippc
F	263m SW	Operator: Unichema Chemical Ltd Address: Pool Lane, Bebington, Wirral, Merseyside, CH62 4UF Process: Manufacture And Use Of Organic Chemicals Permit Number: BV7699	Original Permit Number: IPCMINVAR Date Approved: 15-10-2003 Effective Date: 20-10-2003 Status: Revoked - Now Ippc
J	295m SE	Operator: Quest International UK Ltd Address: Dock Road South, Wirral, Merseyside, L62 4SU Process: Processes Involving Halogens Permit Number: AL8860	Original Permit Number: IPCAIRAPP Date Approved: 16-5-1994 Effective Date: 22-5-1994 Status: Superseded By Variation



ID	Location	Details	
J	295m SE	Operator: Quest International UK Ltd Address: Dock Road South, Wirral, Merseyside, L62 4SU Process: Processes Involving Halogens Permit Number: AR5243	Original Permit Number: IPCMINVAR Date Approved: 9-10-1995 Effective Date: 27-10-1995 Status: Revoked
L	353m SE	Operator: Lubrizol Ltd Address: Dock Road South, Bromborough, Wirral, Merseyside, CH62 4SH Process: Incineration Permit Number: AG6915	Original Permit Number: IPCAIRAPP Date Approved: 23-9-1993 Effective Date: 23-9-1993 Status: Superseded By Variation
L	353m SE	Operator: Lubrizol Ltd Address: Dock Road South, Bromborough, Wirral, Merseyside, CH62 4SH Process: Manufacture And Use Of Organic Chemicals Permit Number: AK7850	Original Permit Number: IPCAIRAPP Date Approved: 1-8-1994 Effective Date: 8-8-1994 Status: Superseded By Variation
L	353m SE	Operator: Lubrizol Ltd Address: Dock Road South, Bromborough, Wirral, Merseyside, CH62 4SH Process: Manufacture And Use Of Organic Chemicals Permit Number: AP3479	Original Permit Number: IPCMINVAR Date Approved: 5-7-1995 Effective Date: 10-7-1995 Status: Superseded By Variation
L	353m SE	Operator: Lubrizol Ltd Address: Dock Road South, Bromborough, Wirral, Merseyside, CH62 4SH Process: Manufacture And Use Of Organic Chemicals Permit Number: AU4169	Original Permit Number: IPCMAJVAR Date Approved: 4-6-1996 Effective Date: 9-6-1996 Status: Superseded By Variation
L	353m SE	Operator: Lubrizol Ltd Address: Dock Road South, Bromborough, Wirral, Merseyside, CH62 4SH Process: Incineration Permit Number: BC5571	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked
L	353m SE	Operator: Lubrizol Ltd Address: Dock Road South, Bromborough, Wirral, Merseyside, CH62 4SH Process: Manufacture And Use Of Organic Chemicals Permit Number: BD3957	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
L	353m SE	Operator: Lubrizol Ltd Address: Dock Road South, Bromborough, Wirral, Merseyside, CH62 4SH Process: Manufacture And Use Of Organic Chemicals Permit Number: BV9284	Original Permit Number: IPCMINVAR Date Approved: 13-11-2003 Effective Date: 14-11-2003 Status: Superseded By Variation
L	353m SE	Operator: Lubrizol Ltd Address: Dock Road South, Bromborough, Wirral, Merseyside, CH62 4SH Process: Manufacture And Use Of Organic Chemicals Permit Number: BX0997	Original Permit Number: IPCMINVAR Date Approved: 22-12-2003 Effective Date: 30-12-2003 Status: Superseded By Variation



ID	Location	Details	
L	353m SE	Operator: Lubrizol Ltd Address: Dock Road South, Bromborough, Wirral, Merseyside, CH62 4SH Process: Manufacture And Use Of Organic Chemicals Permit Number: BX8424	Original Permit Number: IPCMINVAR Date Approved: 24-5-2004 Effective Date: 28-5-2004 Status: Revoked - Now Ippc

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 4.10 Licensed industrial activities (Part A(1))

**Records within 500m**

**29**

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 55**

ID	Location	Details	
F	263m SW	Operator: UNICHEMA CHEMICAL LTD Installation Name: - Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: BS3727 Original Permit Number: BS3727	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
F	263m SW	Operator: UNICHEMA CHEMICALS LTD Installation Name: BROMBOROUGH POOL CHEMICAL WORKS Process: ASSOCIATED PROCESS Permit Number: BP3136SW Original Permit Number: BS3727IS	EPR Reference: - Issue Date: 22/07/2005 Effective Date: 22/07/2005 Last date noted as effective: 13/06/2022 Status: SUPERCEDED
F	263m SW	Operator: UNICHEMA CHEMICALS LTD Installation Name: BROMBOROUGH POOL CHEMICAL WORKS Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: BP3136SW Original Permit Number: BS3727IS	EPR Reference: - Issue Date: 22/07/2005 Effective Date: 22/07/2005 Last date noted as effective: 13/06/2022 Status: SUPERCEDED
F	263m SW	Operator: UNICHEMA CHEMICALS LTD Installation Name: BROMBOROUGH POOL CHEMICAL WORKS Process: ASSOCIATED PROCESS Permit Number: BS3727IS Original Permit Number: BS3727IS	EPR Reference: - Issue Date: 21/09/2004 Effective Date: 21/09/2004 Last date noted as effective: 13/06/2022 Status: SUPERCEDED



ID	Location	Details	
F	263m SW	Operator: UNICHEMA CHEMICALS LTD Installation Name: BROMBOROUGH POOL CHEMICAL WORKS Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: BS3727IS Original Permit Number: BS3727IS	EPR Reference: - Issue Date: 21/09/2004 Effective Date: 21/09/2004 Last date noted as effective: 13/06/2022 Status: SUPERCEDED
K	322m W	Operator: DALKIA UTILITIES SERVICES PLC Installation Name: - Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: BV7354 Original Permit Number: BV7354	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
L	353m SE	Operator: LUBRIZOL LIMITED Installation Name: BROMBOROUGH ADDITIVES EPR/BS3538IV Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: BS3581IV Original Permit Number: BS3581IV	EPR Reference: - Issue Date: 22/06/2004 Effective Date: 22/06/2004 Last date noted as effective: 13/06/2022 Status: SUPERCEDED
L	353m SE	Operator: D1 OIL SUBSIDIARY LIMITED Installation Name: BROMBOROUGH ADDITIVES EPR/DP3435MW Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: DP3435MW Original Permit Number: DP3435MW	EPR Reference: - Issue Date: 29/12/2006 Effective Date: 29/12/2006 Last date noted as effective: 13/06/2022 Status: SUPERCEDED
L	353m SE	Operator: D1 OIL SUBSIDIARY LIMITED Installation Name: BROMBOROUGH ADDITIVES EPR/DP3435MW Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY BIOLOGICAL TREATMENT Permit Number: DP3435MW Original Permit Number: DP3435MW	EPR Reference: - Issue Date: 29/12/2006 Effective Date: 29/12/2006 Last date noted as effective: 13/06/2022 Status: SUPERCEDED
L	353m SE	Operator: LUBRIZOL LTD Installation Name: - Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: BS3581 Original Permit Number: BS3581	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS



ID	Location	Details	
L	353m SE	Operator: LUBRIZOL LIMITED Installation Name: BROMBOROUGH ADDITIVES EPR/BS3538IV Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY BIOLOGICAL TREATMENT Permit Number: BS3581IV Original Permit Number: BS3581IV	EPR Reference: - Issue Date: 22/06/2004 Effective Date: 22/06/2004 Last date noted as effective: 13/06/2022 Status: SUPERCEDED
L	376m SE	Operator: WHARF POWER LIMITED Installation Name: WHARF POWER LIMITED Process: EXISTING MEDIUM COMBUSTION PLANT Permit Number: HP3831QB Original Permit Number: HP3831QB	EPR Reference: - Issue Date: 14/08/2019 Effective Date: 14/08/2019 Last date noted as effective: 13/06/2022 Status: EFFECTIVE
L	376m SE	Operator: WHARF POWER LIMITED Installation Name: WHARF POWER LIMITED Process: NEW MEDIUM COMBUSTION PLANT Permit Number: HP3831QB Original Permit Number: HP3831QB	EPR Reference: - Issue Date: 14/08/2019 Effective Date: 14/08/2019 Last date noted as effective: 13/06/2022 Status: EFFECTIVE
N	411m SW	Operator: DALKIA UTILITIES SERVICES PLC Installation Name: BROMBOROUGH POOL CHEMICAL WORKS Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: BV7354IB Original Permit Number: BV7354IB	EPR Reference: - Issue Date: 21/09/2004 Effective Date: 21/09/2004 Last date noted as effective: 13/06/2022 Status: SUPERCEDED
N	411m SW	Operator: DALKIA UTILITIES SERVICES PLC Installation Name: BROMBOROUGH POOL CHEMICAL WORKS Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: JP3735TC Original Permit Number: BV7354IB	EPR Reference: - Issue Date: - Effective Date: 23/07/2010 Last date noted as effective: 13/06/2022 Status: SURRENDER EFFECTIVE
N	411m SW	Operator: UNIQEMA UK LIMITED Installation Name: BROMBOROUGH POOL CHEMICAL WORKS Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: GP3736GJ Original Permit Number: BS3727IS	EPR Reference: EA/EPR/BS3727IS/V003 Issue Date: 27/02/2009 Effective Date: 27/02/2009 Last date noted as effective: 13/06/2022 Status: SUPERCEDED
N	411m SW	Operator: UNIQEMA UK LIMITED Installation Name: BROMBOROUGH POOL CHEMICAL WORKS Process: ASSOCIATED PROCESS Permit Number: QP3338TW Original Permit Number: BS3727IS	EPR Reference: - Issue Date: - Effective Date: 13/09/2010 Last date noted as effective: 13/06/2022 Status: SURRENDER EFFECTIVE



ID	Location	Details	
N	411m SW	Operator: UNIQEMA UK LIMITED Installation Name: BROMBOROUGH POOL CHEMICAL WORKS Process: ASSOCIATED PROCESS Permit Number: GP3736GJ Original Permit Number: BS3727IS	EPR Reference: EA/EPR/BS3727IS/V003 Issue Date: 27/02/2009 Effective Date: 27/02/2009 Last date noted as effective: 13/06/2022 Status: SUPERCEDED
N	411m SW	Operator: UNIQEMA UK LIMITED Installation Name: BROMBOROUGH POOL CHEMICAL WORKS Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: QP3338TW Original Permit Number: BS3727IS	EPR Reference: - Issue Date: - Effective Date: 13/09/2010 Last date noted as effective: 13/06/2022 Status: SURRENDER EFFECTIVE
Q	483m S	Operator: LUBRIZOL LIMITED Installation Name: BROMBOROUGH ADDITIVES EPR/BS3538IV Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: AP3530LU Original Permit Number: BS3581IV	EPR Reference: - Issue Date: 22/12/2005 Effective Date: 31/12/2005 Last date noted as effective: 13/06/2022 Status: SUPERCEDED
Q	483m S	Operator: ORGANIC WASTE MANAGEMENT (UK) LTD Installation Name: BROMBOROUGH ADDITIVES EPR/UP3533TE Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: UP3533TE Original Permit Number: UP3533TE	EPR Reference: - Issue Date: 27/04/2010 Effective Date: 27/04/2010 Last date noted as effective: 13/06/2022 Status: SUPERCEDED
Q	483m S	Operator: ORGANIC WASTE MANAGEMENT (UK) LTD Installation Name: BROMBOROUGH ADDITIVES EPR/UP3533TE Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY BIOLOGICAL TREATMENT Permit Number: UP3533TE Original Permit Number: UP3533TE	EPR Reference: - Issue Date: 27/04/2010 Effective Date: 27/04/2010 Last date noted as effective: 13/06/2022 Status: SUPERCEDED
Q	483m S	Operator: ORGANIC WASTE MANAGEMENT (UK) LTD Installation Name: BROMBOROUGH ADDITIVES EPR/UP3533TE Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATICS Permit Number: UP3736FF Original Permit Number: UP3533TE	EPR Reference: - Issue Date: 22/09/2011 Effective Date: 22/09/2011 Last date noted as effective: 13/06/2022 Status: SUPERCEDED



ID	Location	Details	
Q	483m S	Operator: ALMA BIOFUELS (UK) LIMITED Installation Name: BROMBOROUGH ADDITIVES EPR/GP3035AP Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATIC Permit Number: GP3035AP Original Permit Number: GP3035AP	EPR Reference: - Issue Date: 07/05/2015 Effective Date: 31/08/2017 Last date noted as effective: 13/06/2022 Status: REVOKED
Q	483m S	Operator: ALMA BIOFUELS (UK) LIMITED Installation Name: BROMBOROUGH ADDITIVES EPR/GP3035AP Process: DISPOSAL OR RECOVERY OF HAZARDOUS WASTE WITH A CAPACITY EXCEEDING 10 TONNES PER DAY INVOLVING BIOLOGICAL TREATMENT Permit Number: GP3035AP Original Permit Number: GP3035AP	EPR Reference: - Issue Date: 07/05/2015 Effective Date: 31/08/2017 Last date noted as effective: 13/06/2022 Status: REVOKED
Q	483m S	Operator: ORGANIC WASTE MANAGEMENT (UK) LTD Installation Name: BROMBOROUGH ADDITIVES EPR/UP3533TE Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY BIOLOGICAL TREATMENT Permit Number: UP3736FF Original Permit Number: UP3533TE	EPR Reference: - Issue Date: 22/09/2011 Effective Date: 22/09/2011 Last date noted as effective: 13/06/2022 Status: SUPERCEDED
Q	483m S	Operator: LUBRIZOL LIMITED Installation Name: BROMBOROUGH ADDITIVES EPR/BS3538IV Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY BIOLOGICAL TREATMENT Permit Number: AP3530LU Original Permit Number: BS3581IV	EPR Reference: - Issue Date: 22/12/2005 Effective Date: 31/12/2005 Last date noted as effective: 13/06/2022 Status: SUPERCEDED
Q	483m S	Operator: ENNOVOR BIOFUELS LTD Installation Name: BROMBOROUGH ADDITIVES EPR/UP3533TE Process: ORGANIC CHEMICALS; HYDROCARBONS EG AROMATIC Permit Number: TP3133AF Original Permit Number: UP3533TE	EPR Reference: - Issue Date: 27/03/2015 Effective Date: 27/03/2015 Last date noted as effective: 13/06/2022 Status: SUPERCEDED
Q	483m S	Operator: ENNOVOR BIOFUELS LTD Installation Name: BROMBOROUGH ADDITIVES EPR/UP3533TE Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY BIOLOGICAL TREATMENT Permit Number: TP3133AF Original Permit Number: UP3533TE	EPR Reference: - Issue Date: 27/03/2015 Effective Date: 27/03/2015 Last date noted as effective: 13/06/2022 Status: SUPERCEDED

*This data is sourced from the Environment Agency and Natural Resources Wales.*





## 4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m

2

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 55**

ID	Location	Address	Details	
11	319m SW	Uniqema Chemicals Ltd, Pool Lane, Bebington, Merseyside, CH62 4UF	Process: Chemical & Acid Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
O	430m S	Ap Green Refractories, Dock Rd Sth, Bromborough, Merseyside, CH62 4SP	Process: Manufacture of Clay Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

*This data is sourced from Local Authority records.*

## 4.12 Radioactive Substance Authorisations

Records within 500m

0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 4.13 Licensed Discharges to controlled waters

Records within 500m

39

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 55**

ID	Location	Address	Details	
E	131m SE	UNICHEMA CHEMICALS, POOL LANE, BEBBINGTON, WIRRAL, MERSEYSIDE, L62 4UF	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016890140 Permit Version: 1 Receiving Water: MERSEY ESTUARY	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1980 Revocation Date: 25/11/1981



ID	Location	Address	Details	
E	131m SE	UNICHEMA CHEMICALS, POOL LANE, BEBBINGTON, WIRRAL, MERSEYSIDE, L62 4UF	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016890140 Permit Version: 2 Receiving Water: MERSEY ESTUARY	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 26/11/1981 Revocation Date: 29/11/1984
E	131m SE	UNICHEMA CHEMICALS, POOL LANE, BEBBINGTON, WIRRAL, MERSEYSIDE, L62 4UF	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016890140 Permit Version: 3 Receiving Water: MERSEY ESTUARY	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 30/11/1984 Revocation Date: 30/06/1986
E	131m SE	UNICHEMA CHEMICALS, POOL LANE, BEBBINGTON, WIRRAL, MERSEYSIDE, L62 4UF	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016890140 Permit Version: 4 Receiving Water: MERSEY ESTUARY	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: - Effective Date: 01/07/1986 Revocation Date: 01/04/1996
E	134m SE	PPF INTERNATIONAL LTD, BROMBOROUGH PORT, WIRRAL, MERSEYSIDE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016890196 Permit Version: 1 Receiving Water: MERSEY ESTUARY	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/07/1980 Revocation Date: 02/04/1985
E	134m SE	PPF INTERNATIONAL LTD, BROMBOROUGH PORT, WIRRAL, MERSEYSIDE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016890196 Permit Version: 2 Receiving Water: MERSEY ESTUARY	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 03/04/1985 Revocation Date: 22/03/1993
F	158m SW	BEBBINGTON PREMISES - MAIN OUTLET, BEBBINGTON, WIRRAL, MERSEYSIDE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016890923 Permit Version: 1 Receiving Water: BROMBOROUGH POOL	Status: REVOKED AND REPLACED BY IPC AUTHORISATION Issue date: - Effective Date: 19/01/1989 Revocation Date: 21/09/2004
H	223m W	UNICHEMA CHEMICALS, POOL LANE, BEBBINGTON, WIRRAL, MERSEYSIDE, L62 4UF	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016890215 Permit Version: 1 Receiving Water: BROMBOROUGH POOL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 28/11/1979 Revocation Date: 01/03/1991



ID	Location	Address	Details	
H	223m W	BEBINGTON PREMISES - MAIN OUTLET, BEBINGTON, WIRRAL, MERSEYSIDE	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: 016890918 Permit Version: 1 Receiving Water: RIVER DIBBIN	Status: REVOKED AND REPLACED BY IPC AUTHORISATION Issue date: - Effective Date: 19/01/1989 Revocation Date: 21/09/2004
I	226m N	BROMBOROUGH DOCK STP, DOCK ROAD SOUTH, BROMBOROUGH, WIRRAL, MERSEYSIDE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016992866 Permit Version: 1 Receiving Water: RIVER MERSEY	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/01/1995 Revocation Date: 24/04/1995
I	226m N	BROMBOROUGH DOCK STP, DOCK ROAD SOUTH, BROMBOROUGH, WIRRAL, MERSEYSIDE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016992866 Permit Version: 2 Receiving Water: RIVER MERSEY	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 25/04/1995 Revocation Date: 08/06/1999
10	272m NW	BROMBOROUGH DOCK LANDFILL, DOCK ROAD SOUTH, BROMBOROUGH, WIRRAL, MERSEYSIDE	Effluent Type: WASTE SITE - DOMESTIC & INDUSTRIAL LANDFILL Permit Number: 016891913 Permit Version: 2 Receiving Water: RIVER MERSEY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: - Effective Date: 23/07/1998 Revocation Date: 23/10/1999
K	296m W	POINTER STREET LOM SWO, ELTON HEAD ROAD, ST HELENS, MERSEYSIDE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991365 Permit Version: 1 Receiving Water: PENDLEBURY BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 25/01/1989 Revocation Date: 23/10/1991
K	296m W	UNICHEMA CHEMICALS, POOL LANE, BEBBINGTON, WIRRAL, MERSEYSIDE, L62 4UF	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016890919 Permit Version: 1 Receiving Water: BROMBOROUGH POOL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 19/01/1989 Revocation Date: 29/03/1991
K	296m W	UNICHEMA CHEMICALS, POOL LANE, BEBBINGTON, WIRRAL, MERSEYSIDE, L62 4UF	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016890919 Permit Version: 2 Receiving Water: BROMBOROUGH POOL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 30/03/1991 Revocation Date: 03/07/1991



ID	Location	Address	Details	
K	304m W	UNICHEMA CHEMICALS, POOL LANE, BEBBINGTON, WIRRAL, MERSEYSIDE, L62 4UF	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: 016890920 Permit Version: 1 Receiving Water: TRIB RIVER MERSEY	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 19/01/1989 Revocation Date: 29/03/1991
K	304m W	UNICHEMA CHEMICALS, POOL LANE, BEBBINGTON, WIRRAL, MERSEYSIDE, L62 4UF	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: 016890920 Permit Version: 2 Receiving Water: TRIB RIVER MERSEY	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 30/03/1991 Revocation Date: 03/07/1991
K	304m W	UNICHEMA CHEMICALS, POOL LANE, BEBBINGTON, WIRRAL, MERSEYSIDE, L62 4UF	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: 016890922 Permit Version: 1 Receiving Water: BROMBOROUGH POOL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 19/01/1989 Revocation Date: 29/03/1991
K	304m W	UNICHEMA CHEMICALS, POOL LANE, BEBBINGTON, WIRRAL, MERSEYSIDE, L62 4UF	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: 016890922 Permit Version: 2 Receiving Water: BROMBOROUGH POOL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 30/03/1991 Revocation Date: 03/07/1991
12	327m SE	QUEST INT. (UK) LTD, BROMBOROUGH PORT, WIRRAL, MERSEYSIDE	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: 016991291 Permit Version: 1 Receiving Water: MERSEY ESTUARY	Status: SURRENDERED UNDER EPR 2010 Issue date: - Effective Date: 25/07/1988 Revocation Date: 22/08/2014
13	337m N	BROMBOROUGH DOCK LANDFILL, DOCK ROAD SOUTH, BROMBOROUGH, WIRRAL, MERSEYSIDE	Effluent Type: WASTE SITE - DOMESTIC & INDUSTRIAL LANDFILL Permit Number: 016891913 Permit Version: 1 Receiving Water: RIVER MERSEY	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 23/07/1997 Revocation Date: 22/07/1998
15	357m NW	BOLTON ROAD EAST OUTFALL, WIRRAL, MERSEYSIDE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016810666 Permit Version: 1 Receiving Water: RIVER MERSEY	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/07/1992 Revocation Date: 01/07/1992
16	381m SE	SEA WALL ADJ DOCK RD STH, WIRRAL, MERSEYSIDE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016810664 Permit Version: 1 Receiving Water: RIVER MERSEY	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 02/11/1992 Revocation Date: 02/11/1992



ID	Location	Address	Details	
M	406m SW	GLYCERINE PROCESS PLANT, POOL LANE, BROMBOROUGH POOL, MERSEYSIDE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016993134 Permit Version: 1 Receiving Water: DIBBINSDALE BROOK	Status: REVOKED AND REPLACED BY IPC AUTHORISATION Issue date: - Effective Date: 03/07/1996 Revocation Date: 21/09/2004
M	420m SW	UNICHEMA CHEMICALS, POOL LANE, BEBBINGTON, WIRRAL, MERSEYSIDE, L62 4UF	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: 016890921 Permit Version: 1 Receiving Water: BROMBOROUGH POOL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 19/01/1989 Revocation Date: 01/03/1991
19	437m SE	DOCK ROAD SOUTH CSO, OPP 48 SOUTH VIEW, BROMBOROUGH, WIRRAL, MERSEYSIDE, CH62 4UA	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01WIR0101 Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 17/09/1992 Revocation Date: 01/01/1995
P	464m SE	DOCK ROAD SOUTH CSO, OPP 48 SOUTH VIEW, BROMBOROUGH, WIRRAL, MERSEYSIDE, CH62 4UA	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016881612 Permit Version: 3 Receiving Water: RIVER MERSEY ESTUARY	Status: VARIED UNDER EPR 2010 Issue date: 13/02/2020 Effective Date: 13/02/2020 Revocation Date: -
P	468m SE	BROMBOROUGH POOL VILLAGE PS 51026, DOCK ROAD SOUTH, BROMBOROUGH POOL, WIRRAL, MERSEYSIDE, CH62 4SQ	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016881615 Permit Version: 1 Receiving Water: MERSEY ESTUARY	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 11/06/1991 Revocation Date: 22/07/1991
P	468m SE	BROMBOROUGH POOL VILLAGE PS 51026, DOCK ROAD SOUTH, BROMBOROUGH POOL, WIRRAL, MERSEYSIDE, CH62 4SQ	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016881615 Permit Version: 2 Receiving Water: MERSEY ESTUARY	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 23/07/1991 Revocation Date: 18/09/1991



ID	Location	Address	Details	
P	468m SE	BROMBOROUGH POOL VILLAGE PS 51026, DOCK ROAD SOUTH, BROMBOROUGH POOL, WIRRAL, MERSEYSIDE, CH62 4SQ	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016881615 Permit Version: 3 Receiving Water: MERSEY ESTUARY	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 19/09/1991 Revocation Date: 14/10/2018
P	468m SE	BROMBOROUGH POOL VILLAGE PS 51026, DOCK ROAD SOUTH, BROMBOROUGH POOL, WIRRAL, MERSEYSIDE, CH62 4SQ	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016881615 Permit Version: 4 Receiving Water: MERSEY ESTUARY	Status: VARIED UNDER EPR 2010 Issue date: 15/10/2018 Effective Date: 15/10/2018 Revocation Date: -
P	468m SE	BROMBOROUGH POOL VILLAGE PS 51026, DOCK ROAD SOUTH, BROMBOROUGH POOL, WIRRAL, MERSEYSIDE, CH62 4SQ	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 016881615 Permit Version: 4 Receiving Water: MERSEY ESTUARY	Status: VARIED UNDER EPR 2010 Issue date: 15/10/2018 Effective Date: 15/10/2018 Revocation Date: -
P	468m SE	DOCK ROAD SOUTH CSO, OPP 48 SOUTH VIEW, BROMBOROUGH, WIRRAL, MERSEYSIDE, CH62 4UA	Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES Permit Number: 016810665 Permit Version: 1 Receiving Water: RIVER MERSEY ESTUARY	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 09/01/1985 Revocation Date: 22/07/1991
P	468m SE	DOCK ROAD SOUTH CSO, OPP 48 SOUTH VIEW, BROMBOROUGH, WIRRAL, MERSEYSIDE, CH62 4UA	Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES Permit Number: 016810665 Permit Version: 2 Receiving Water: RIVER MERSEY ESTUARY	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 23/07/1991 Revocation Date: 19/08/1992
P	468m SE	DOCK ROAD SOUTH CSO, OPP 48 SOUTH VIEW, BROMBOROUGH, WIRRAL, MERSEYSIDE, CH62 4UA	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 016810665 Permit Version: 3 Receiving Water: RIVER MERSEY ESTUARY	Status: MODIFIED - (WRA 91 SCHD 10 - AS AMENDED BY ENV ACT 1995) Issue date: - Effective Date: 20/08/1992 Revocation Date: 12/12/2018



ID	Location	Address	Details	
P	468m SE	DOCK ROAD SOUTH CSO, OPP 48 SOUTH VIEW, BROMBOROUGH, WIRRAL, MERSEYSIDE, CH62 4UA	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016810665 Permit Version: 4 Receiving Water: RIVER MERSEY ESTUARY	Status: VARIED UNDER EPR 2010 Issue date: 13/12/2018 Effective Date: 13/12/2018 Revocation Date: -
P	468m SE	DOCK ROAD SOUTH CSO, OPP 48 SOUTH VIEW, BROMBOROUGH, WIRRAL, MERSEYSIDE, CH62 4UA	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 016810665 Permit Version: 4 Receiving Water: RIVER MERSEY ESTUARY	Status: VARIED UNDER EPR 2010 Issue date: 13/12/2018 Effective Date: 13/12/2018 Revocation Date: -
P	468m SE	DOCK ROAD SOUTH CSO, OPP 48 SOUTH VIEW, BROMBOROUGH, WIRRAL, MERSEYSIDE, CH62 4UA	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016881612 Permit Version: 1 Receiving Water: RIVER MERSEY ESTUARY	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 24/05/1991 Revocation Date: 22/07/1991
P	468m SE	DOCK ROAD SOUTH CSO, OPP 48 SOUTH VIEW, BROMBOROUGH, WIRRAL, MERSEYSIDE, CH62 4UA	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016881612 Permit Version: 2 Receiving Water: RIVER MERSEY ESTUARY	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 23/07/1991 Revocation Date: 12/02/2020

*This data is sourced from the Environment Agency and Natural Resources Wales.*

#### 4.14 Pollutant release to surface waters (Red List)

**Records within 500m**

**0**

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## 4.15 Pollutant release to public sewer

Records within 500m

1

Discharges of Special Category Effluents to the public sewer.

Features are displayed on the Current industrial land use map on **page 55**

ID	Location	Address	Details	
17	427m SE	UK WASTE MANAGEMENT LTD, BROMBOROUGH DOCK LANDFILL SITE, DOCK ROAD SOUTH, BROMBOROUGH, WIRRAL, MERSEYSIDE, L62 4SQ	Permission reference: AT5011 Local Authority: WIRRAL METROPOLITAN BOROUGH COUNCIL First received date: 01/07/2010	Last received date: 01/01/2018 Status: RECEIVED

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 4.16 List 1 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 4.17 List 2 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 4.18 Pollution Incidents (EA/NRW)

Records within 500m

1

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 55**



ID	Location	Details	
18	436m W	Incident Date: 20/06/2001 Incident Identification: 10411 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 4.19 Pollution inventory substances

**Records within 500m**

**0**

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*

## 4.20 Pollution inventory waste transfers

**Records within 500m**

**0**

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*

## 4.21 Pollution inventory radioactive waste

**Records within 500m**

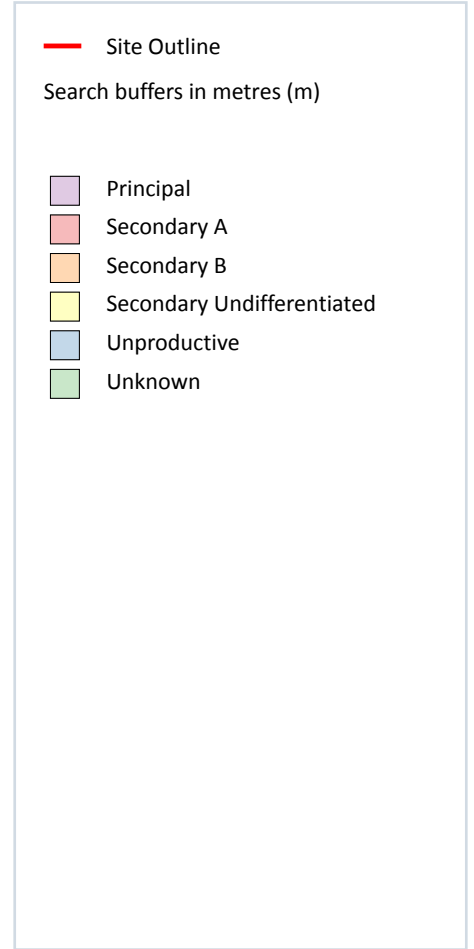
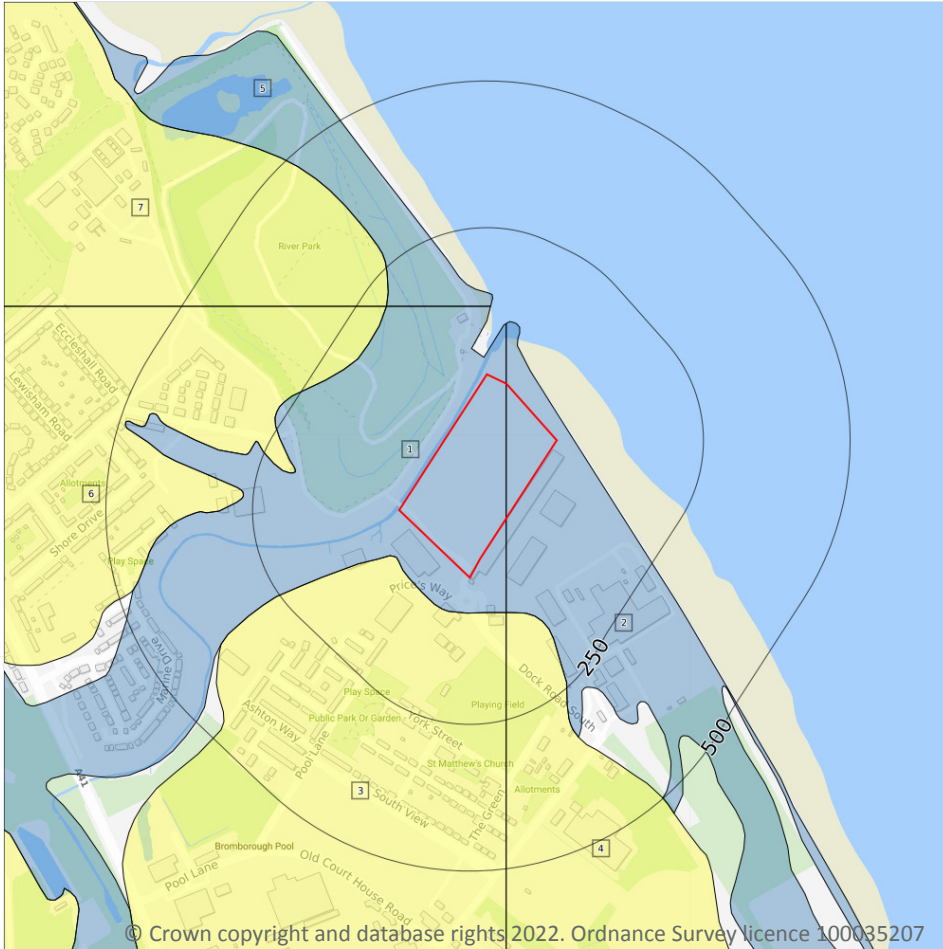
**0**

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

*This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.*



## 5 Hydrogeology - Superficial aquifer



### 5.1 Superficial aquifer

Records within 500m

7

Aquifer status of groundwater held within superficial geology.

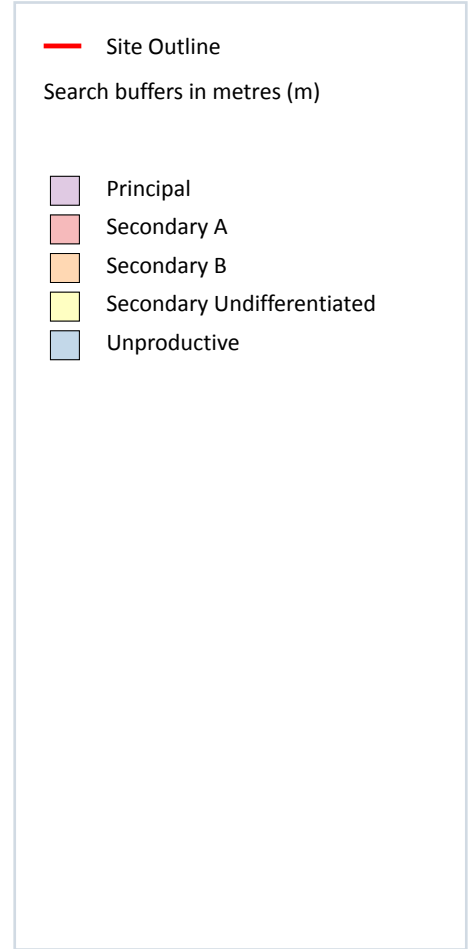
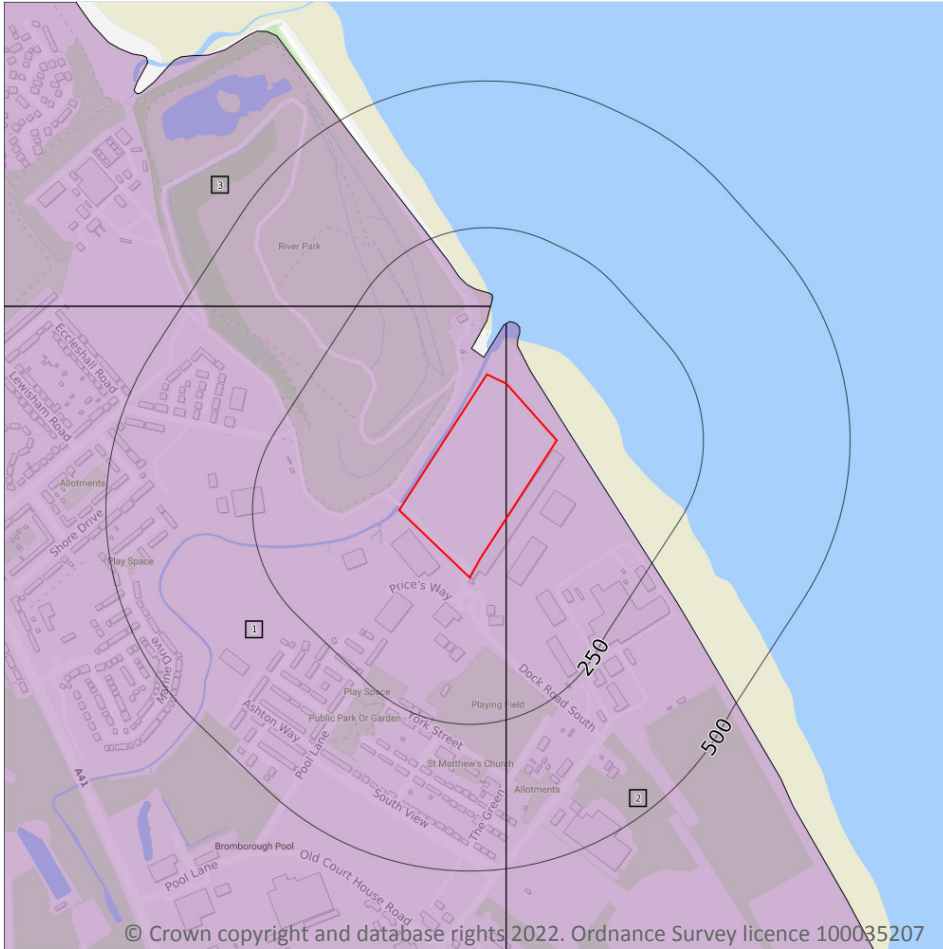
Features are displayed on the Hydrogeology map on **page 78**

ID	Location	Designation	Description
1	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
2	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

ID	Location	Designation	Description
3	60m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	86m SE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
5	116m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
6	188m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
7	207m NW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

*This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.*

## Bedrock aquifer



### 5.2 Bedrock aquifer

Records within 500m

3

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 80**

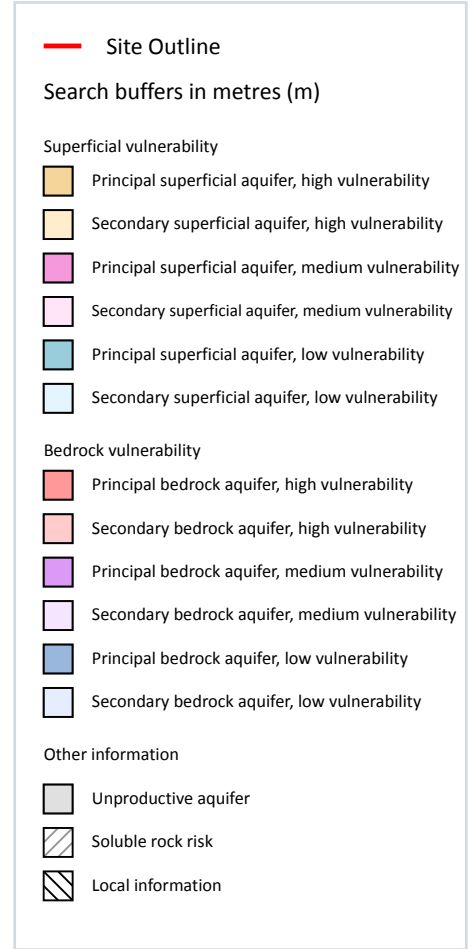
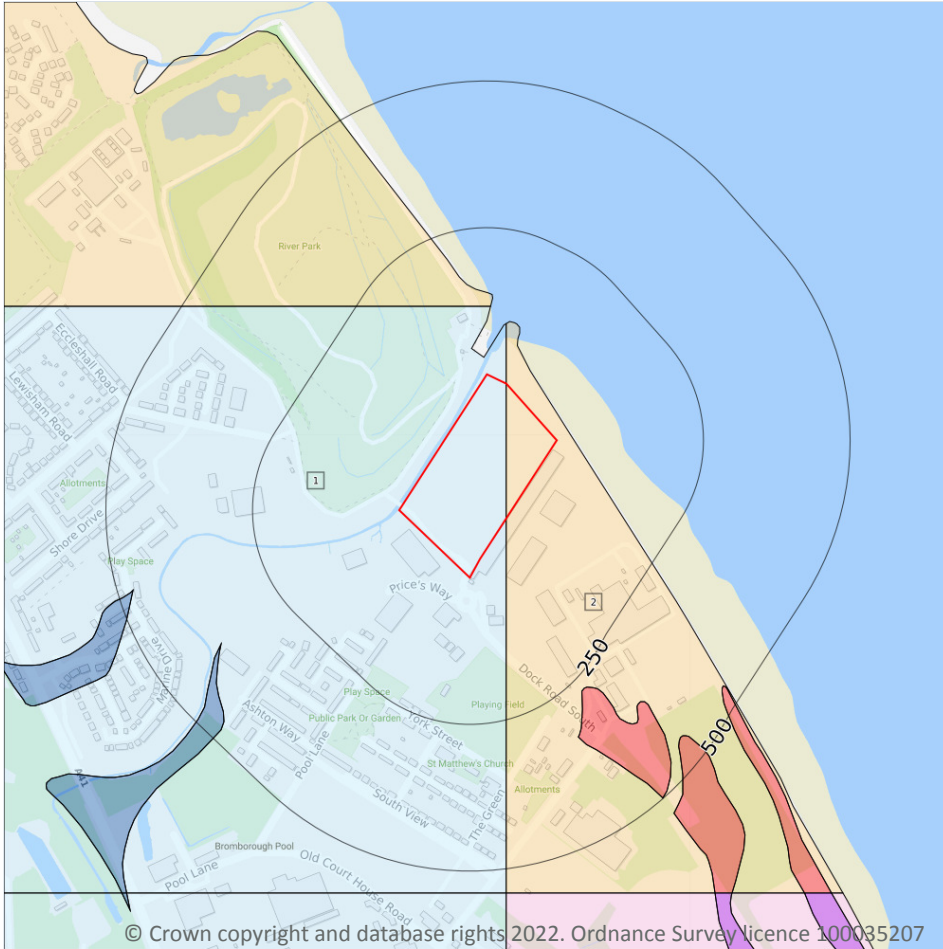
ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

ID	Location	Designation	Description
3	116m N	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

*This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.*



## Groundwater vulnerability



### 5.3 Groundwater vulnerability

Records within 50m

2

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 82**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	<b>Summary Classification:</b> Secondary superficial aquifer - Low Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class:</b> Low <b>Infiltration value:</b> <40% <b>Dilution value:</b> 300- 550mm/year	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Secondary <b>Thickness:</b> 3-10m <b>Patchiness value:</b> >90% <b>Recharge potential:</b> Low	<b>Vulnerability:</b> Low <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed
2	On site	<b>Summary Classification:</b> Secondary superficial aquifer - High Vulnerability <b>Combined classification:</b> Productive Bedrock Aquifer, Productive Superficial Aquifer	<b>Leaching class:</b> High <b>Infiltration value:</b> >70% <b>Dilution value:</b> 300- 550mm/year	<b>Vulnerability:</b> High <b>Aquifer type:</b> Secondary <b>Thickness:</b> 3-10m <b>Patchiness value:</b> <90% <b>Recharge potential:</b> No Data	<b>Vulnerability:</b> High <b>Aquifer type:</b> Principal <b>Flow mechanism:</b> Mixed

*This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.*

## 5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

*This data is sourced from the British Geological Survey and the Environment Agency.*

## 5.5 Groundwater vulnerability- local information

Records on site

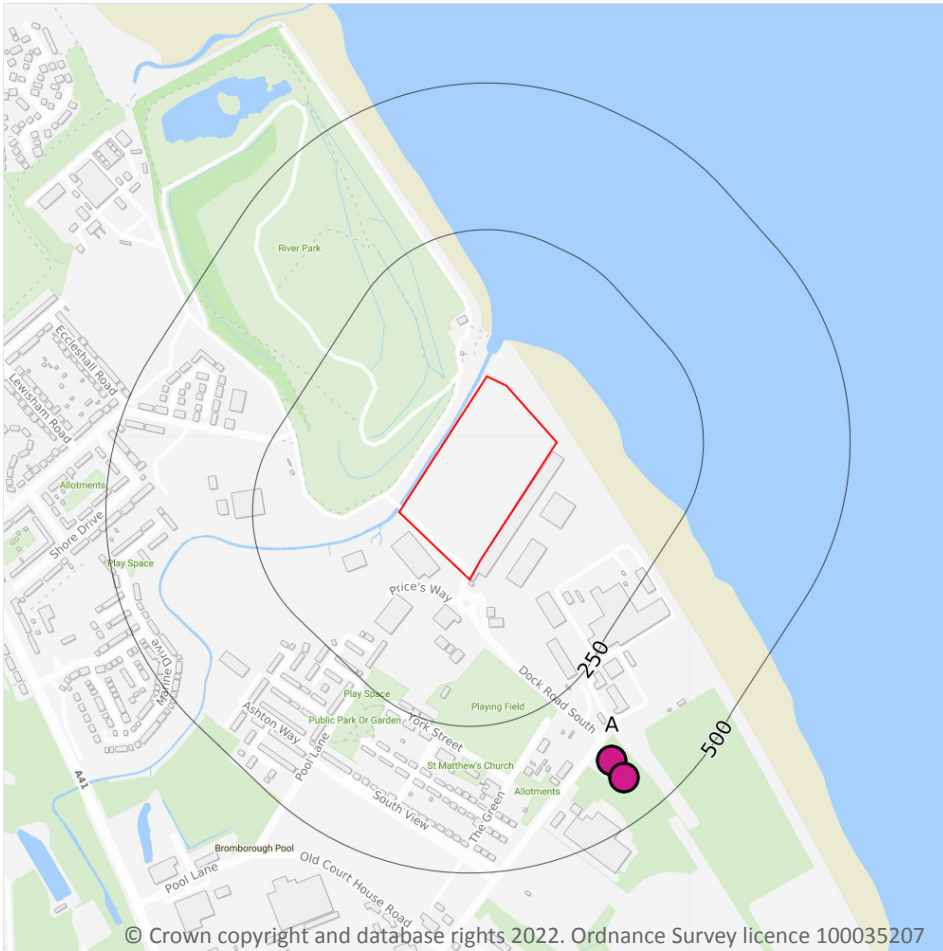
0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on [enquiries@environment-agency.gov.uk](mailto:enquiries@environment-agency.gov.uk).

*This data is sourced from the British Geological Survey and the Environment Agency.*



## Abstractions and Source Protection Zones



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### 5.6 Groundwater abstractions

Records within 2000m

30

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 84**



ID	Location	Details	
A	391m SE	Status: Historical Licence No: 2568007012 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT BROMBOROUGH, WIRRAL" Data Type: Point Name: UNICHEMA CHEMICALS LTD Easting: 335180 Northing: 384230	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 01/01/1999 Version End Date: -
A	391m SE	Status: Historical Licence No: 2568007012 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT BROMBOROUGH, WIRRAL Data Type: Point Name: UNICHEMA CHEMICALS LTD Easting: 335180 Northing: 384230	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 01/01/1999 Version End Date: -
A	391m SE	Status: Active Licence No: 2568007012 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT BROMBOROUGH WIRRAL Data Type: Point Name: Victoria Group Holdings Limited Easting: 335180 Northing: 384230	Annual Volume (m <sup>3</sup> ): 3,500,000 Max Daily Volume (m <sup>3</sup> ): 13,638 Original Application No: NPS/WR/016664 Original Start Date: 23/03/1966 Expiry Date: - Issue No: 106 Version Start Date: 20/08/2014 Version End Date: -
A	427m SE	Status: Historical Licence No: 2568007012 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT BROMBOROUGH, WIRRAL" Data Type: Point Name: UNICHEMA CHEMICALS LTD Easting: 335200 Northing: 384200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 01/01/1999 Version End Date: -



ID	Location	Details	
A	427m SE	Status: Historical Licence No: 2568007012 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT BROMBOROUGH, WIRRAL Data Type: Point Name: UNICHEMA CHEMICALS LTD Easting: 335200 Northing: 384200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 01/01/1999 Version End Date: -
A	427m SE	Status: Active Licence No: 2568007012 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT BROMBOROUGH WIRRAL Data Type: Point Name: Victoria Group Holdings Limited Easting: 335200 Northing: 384200	Annual Volume (m <sup>3</sup> ): 3,500,000 Max Daily Volume (m <sup>3</sup> ): 13,638 Original Application No: NPS/WR/016664 Original Start Date: 23/03/1966 Expiry Date: - Issue No: 106 Version Start Date: 20/08/2014 Version End Date: -
-	1167m S	Status: Historical Licence No: 2568007003 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLES (4) AT PREMISES IN BROMBOROUGH BUSINESS PARK Data Type: Point Name: POCHIN (BROMBOROUGH) LIMITED Easting: 335200 Northing: 383400	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): 6091 Original Application No: - Original Start Date: 17/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 20/05/2008 Version End Date: -
-	1167m S	Status: Historical Licence No: 2568007003 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLES (4) AT PREMISES IN BROMBOROUGH BUSINESS PARK Data Type: Point Name: POCHIN (BROMBOROUGH) LIMITED Easting: 335200 Northing: 383400	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): 6091 Original Application No: - Original Start Date: 17/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 20/05/2008 Version End Date: -

ID	Location	Details	
-	1327m SW	Status: Historical Licence No: 2568007011 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLES (4) AT PREMISES AT BROMBOROUGH, PORT SUNLIGHT" Data Type: Line Name: ENERGY SECTION Easting: 333800 Northing: 383800	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 28/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1994 Version End Date: -
-	1327m SW	Status: Historical Licence No: 2568007011 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLES (4) AT PREMISES AT BROMBOROUGH, PORT SUNLIGHT" Data Type: Line Name: ENERGY SECTION Easting: 333800 Northing: 383800	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 28/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1994 Version End Date: -
-	1327m SW	Status: Historical Licence No: 2568007011 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLES (4) AT PREMISES AT BROMBOROUGH, PORT SUNLIGHT Data Type: Line Name: UNILEVER UK LIMITED Easting: 333800 Northing: 383800	Annual Volume (m <sup>3</sup> ): 2,504,186.83 Max Daily Volume (m <sup>3</sup> ): 12274.2 Original Application No: - Original Start Date: 28/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 02/01/2007 Version End Date: -
-	1327m SW	Status: Historical Licence No: 2568007011 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLES (4) AT PREMISES AT BROMBOROUGH, PORT SUNLIGHT Data Type: Line Name: UNILEVER UK LIMITED Easting: 333800 Northing: 383800	Annual Volume (m <sup>3</sup> ): 2,504,186.83 Max Daily Volume (m <sup>3</sup> ): 12274.2 Original Application No: - Original Start Date: 28/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 02/01/2007 Version End Date: -



ID	Location	Details	
-	1327m SW	Status: Active Licence No: 2568007011 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLES (4) AT PREMISES AT BROMBOROUGH, PORT SUNLIGHT Data Type: Point Name: UNILEVER UK LIMITED Easting: 333800 Northing: 383800	Annual Volume (m <sup>3</sup> ): 2,504,186.83 Max Daily Volume (m <sup>3</sup> ): 12,274.20 Original Application No: 0288 Original Start Date: 28/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 02/01/2007 Version End Date: -
-	1327m SW	Status: Active Licence No: 2568007011 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLES (4) AT PREMISES AT BROMBOROUGH, PORT SUNLIGHT Data Type: Point Name: UNILEVER UK LIMITED Easting: 333800 Northing: 383800	Annual Volume (m <sup>3</sup> ): 2,504,186.83 Max Daily Volume (m <sup>3</sup> ): 12,274.20 Original Application No: 0288 Original Start Date: 28/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 02/01/2007 Version End Date: -
-	1385m S	Status: Historical Licence No: 2568007003 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLES (4) AT PREMISES IN BROMBOROUGH BUSINESS PARK71 Data Type: Point Name: BROMBOROUGH BUSINESS PARK LTD Easting: 335300 Northing: 383200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 17/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1998 Version End Date: -
-	1385m S	Status: Historical Licence No: 2568007003 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLES (4) AT PREMISES IN BROMBOROUGH BUSINESS PARK71 Data Type: Point Name: BROMBOROUGH BUSINESS PARK LTD Easting: 335300 Northing: 383200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 17/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1998 Version End Date: -

ID	Location	Details	
-	1385m S	Status: Historical Licence No: 2568007003 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLES (4) AT PREMISES IN BROMBOROUGH BUSINESS PARK\$71 Data Type: Point Name: BROMBOROUGH BUSINESS PARK LTD Easting: 335300 Northing: 383200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 17/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1998 Version End Date: -
-	1385m S	Status: Historical Licence No: 2568007003 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLES (4) AT PREMISES IN BROMBOROUGH BUSINESS PARK\$71 Data Type: Point Name: BROMBOROUGH BUSINESS PARK LTD Easting: 335300 Northing: 383200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 17/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1998 Version End Date: -
-	1385m S	Status: Historical Licence No: 2568007003 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLES (4) AT PREMISES IN BROMBOROUGH BUSINESS PARK Data Type: Point Name: POCHIN (BROMBOROUGH) LIMITED Easting: 335300 Northing: 383200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): 6091 Original Application No: - Original Start Date: 17/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 20/05/2008 Version End Date: -
-	1385m S	Status: Historical Licence No: 2568007003 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLES (4) AT PREMISES IN BROMBOROUGH BUSINESS PARK Data Type: Point Name: POCHIN (BROMBOROUGH) LIMITED Easting: 335300 Northing: 383200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): 6091 Original Application No: - Original Start Date: 17/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 20/05/2008 Version End Date: -

ID	Location	Details	
-	1474m SW	Status: Active Licence No: 2568007011 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLES (4) AT PREMISES AT BROMBOROUGH, PORT SUNLIGHT Data Type: Point Name: UNILEVER UK LIMITED Easting: 334000 Northing: 383400	Annual Volume (m <sup>3</sup> ): 2,504,186.83 Max Daily Volume (m <sup>3</sup> ): 12,274.20 Original Application No: 0288 Original Start Date: 28/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 02/01/2007 Version End Date: -
-	1647m SE	Status: Historical Licence No: 2568007020 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "THREE BOREHOLES AT BROMBOROUGH, WIRRAL" Data Type: Point Name: J P WHITTER (WATERWELL ENGINEERS) LTD Easting: 335900 Northing: 383200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 2 Version Start Date: 06/03/2000 Version End Date: -
-	1647m SE	Status: Historical Licence No: 2568007020 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: THREE BOREHOLES AT BROMBOROUGH, WIRRAL Data Type: Point Name: J P WHITTER (WATERWELL ENGINEERS) LTD Easting: 335900 Northing: 383200	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 23/03/1966 Expiry Date: - Issue No: 2 Version Start Date: 06/03/2000 Version End Date: -
-	1647m SE	Status: Active Licence No: 2568007020 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLES X 3 AT BROMBOROUGH WIRRAL Data Type: Point Name: J P WHITTER (WATERWELL ENGINEERS) LTD Easting: 335900 Northing: 383200	Annual Volume (m <sup>3</sup> ): 3,110,228 Max Daily Volume (m <sup>3</sup> ): 35,292.10 Original Application No: CW0289C Original Start Date: 23/03/1966 Expiry Date: - Issue No: 2 Version Start Date: 06/03/2000 Version End Date: -

ID	Location	Details	
-	1921m S	Status: Historical Licence No: 2568007019 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT BROMBOROUGH, PORT SUNLIGHT" Data Type: Point Name: ARKADY CRAIGMILLAR Easting: 335500 Northing: 382700	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 1 Version Start Date: 01/01/1999 Version End Date: -
-	1921m S	Status: Historical Licence No: 2568007019 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT BROMBOROUGH, PORT SUNLIGHT" Data Type: Point Name: ARKADY CRAIGMILLAR Easting: 335500 Northing: 382700	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 1 Version Start Date: 01/01/1999 Version End Date: -
-	1921m S	Status: Historical Licence No: 2568007019 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT BROMBOROUGH, PORT SUNLIGHT Data Type: Point Name: ARKADY CRAIGMILLAR Easting: 335500 Northing: 382700	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 1 Version Start Date: 01/01/1999 Version End Date: -
-	1921m S	Status: Historical Licence No: 2568007019 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT BROMBOROUGH, PORT SUNLIGHT Data Type: Point Name: ARKADY CRAIGMILLAR Easting: 335500 Northing: 382700	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 1 Version Start Date: 01/01/1999 Version End Date: -



ID	Location	Details	
-	1921m S	Status: Active Licence No: 2568007019 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT BROMBOROUGH PORT SUNLIGHT Data Type: Point Name: CSM (United Kingdom) Limited Easting: 335500 Northing: 382700	Annual Volume (m <sup>3</sup> ): 393,000 Max Daily Volume (m <sup>3</sup> ): 1,076.72 Original Application No: NPS/WR/008159 Original Start Date: 23/03/1966 Expiry Date: - Issue No: 3 Version Start Date: 14/09/2011 Version End Date: -
-	1921m S	Status: Active Licence No: 2568007019 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT BROMBOROUGH PORT SUNLIGHT Data Type: Point Name: CSM (United Kingdom) Limited Easting: 335500 Northing: 382700	Annual Volume (m <sup>3</sup> ): 393,000 Max Daily Volume (m <sup>3</sup> ): 1,076.72 Original Application No: NPS/WR/008159 Original Start Date: 23/03/1966 Expiry Date: - Issue No: 3 Version Start Date: 14/09/2011 Version End Date: -

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 5.7 Surface water abstractions

### Records within 2000m

1

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 84**

ID	Location	Details	
-	1439m SW	Status: Historical Licence No: 2568007017 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: DIBBINSDALE BROOK AT BEBINGTON, WIRRAL Data Type: Point Name: UNILEVER RESEARCH Easting: 334380 Northing: 383210	Annual Volume (m <sup>3</sup> ): - Max Daily Volume (m <sup>3</sup> ): - Original Application No: - Original Start Date: 23/03/1994 Expiry Date: - Issue No: 100 Version Start Date: 23/03/1994 Version End Date: -

*This data is sourced from the Environment Agency and Natural Resources Wales.*





## 5.8 Potable abstractions

**Records within 2000m**

**0**

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 5.9 Source Protection Zones

**Records within 500m**

**0**

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 5.10 Source Protection Zones (confined aquifer)

**Records within 500m**

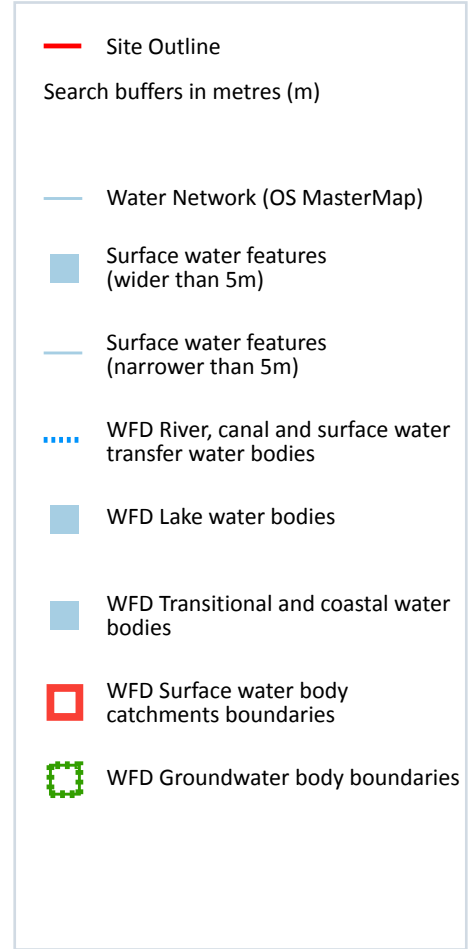
**0**

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## 6 Hydrology



### 6.1 Water Network (OS MasterMap)

**Records within 250m** **23**

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 94**

ID	Location	Type of water feature	Ground level	Permanence	Name
3	3m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bromborough Pool

ID	Location	Type of water feature	Ground level	Permanence	Name
C	6m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	6m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bromborough Pool
C	8m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	8m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bromborough Pool
C	33m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bromborough Pool
C	34m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bromborough Pool
D	38m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	38m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bromborough Pool
4	39m N	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bromborough Pool
E	43m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	48m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	48m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	57m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
C	59m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	59m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	83m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	94m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	128m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	131m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	131m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Bromborough Pool
H	167m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	236m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

*This data is sourced from the Ordnance Survey.*

## 6.2 Surface water features

### Records within 250m

9

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 94**

*This data is sourced from the Ordnance Survey.*



### 6.3 WFD Surface water body catchments

#### Records on site

1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on [page 94](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	Coastal Catchment	Not part of a river WB catchment	171	Wirral	Lower Mersey

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 6.4 WFD Surface water bodies

#### Records identified

1

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on [page 94](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	On site	Transi	MERSEY	<a href="#">GB531206908100</a>	Moderate	Fail	Moderate	2019

*This data is sourced from the Environment Agency and Natural Resources Wales.*

### 6.5 WFD Groundwater bodies

#### Records on site

1

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on [page 94](#)

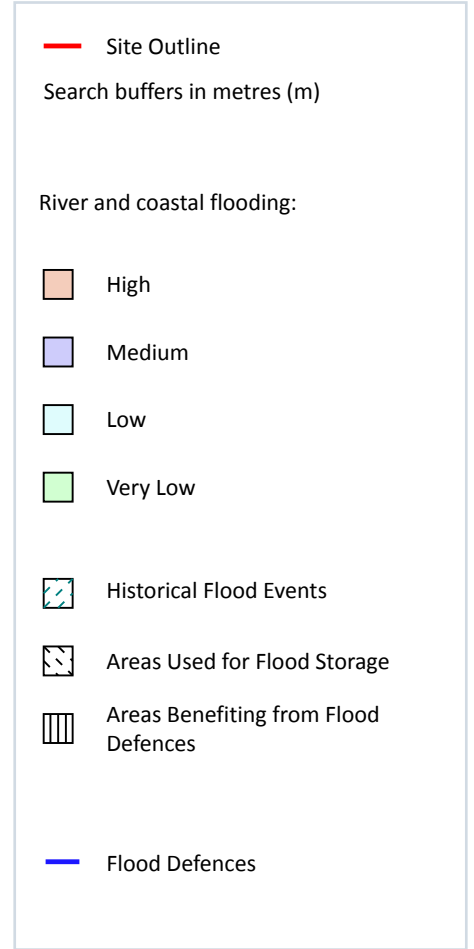
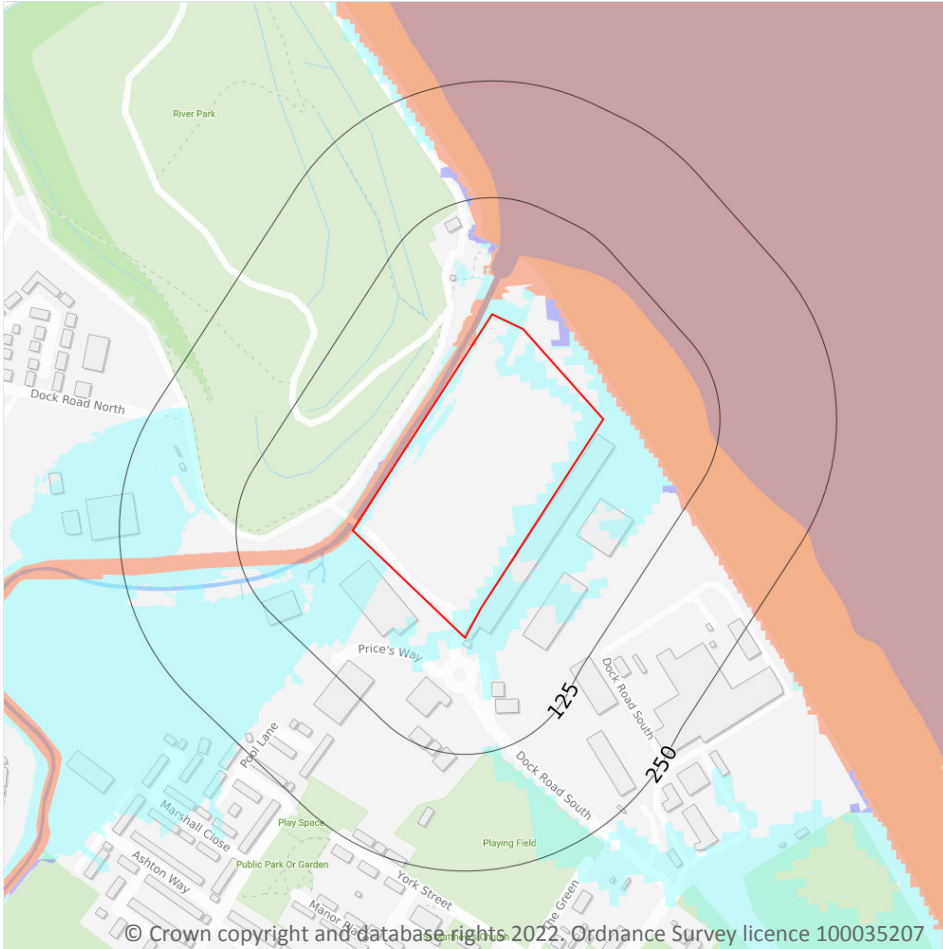


ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Wirral and West Cheshire Permo-Triassic Sandstone Aquifers	<u>GB41101G202600</u>	Poor	Poor	Good	2019

*This data is sourced from the Environment Agency and Natural Resources Wales.*



## 7 River and coastal flooding



### 7.1 Risk of flooding from rivers and the sea

Records within 50m

34

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

Features are displayed on the River and coastal flooding map on **page 99**

Distance	Flood risk category
<b>On site</b>	<b>High</b>
0 - 50m	High

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 7.2 Historical Flood Events

**Records within 250m** **0**

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 7.3 Flood Defences

**Records within 250m** **0**

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 7.4 Areas Benefiting from Flood Defences

**Records within 250m** **0**

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 7.5 Flood Storage Areas

**Records within 250m** **0**

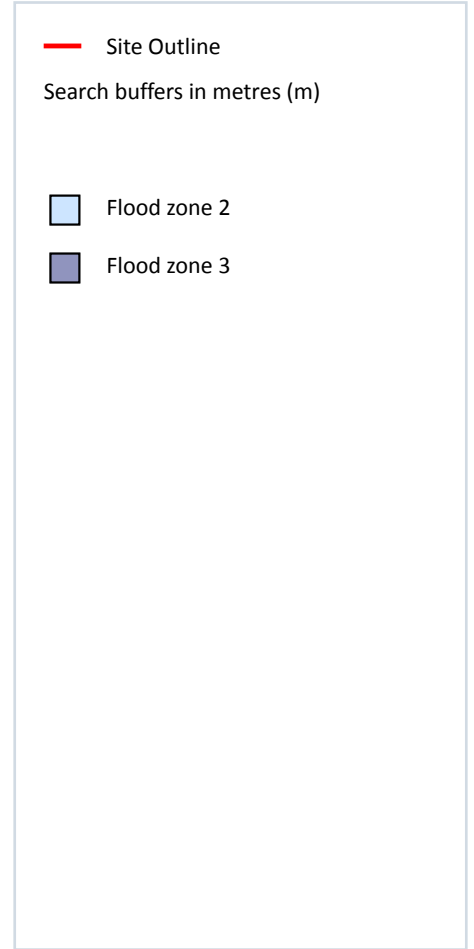
Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

*This data is sourced from the Environment Agency and Natural Resources Wales.*





## River and coastal flooding - Flood Zones



### 7.6 Flood Zone 2

Records within 50m

1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

Features are displayed on the River and coastal flooding map on **page 99**

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 7.7 Flood Zone 3

Records within 50m

1

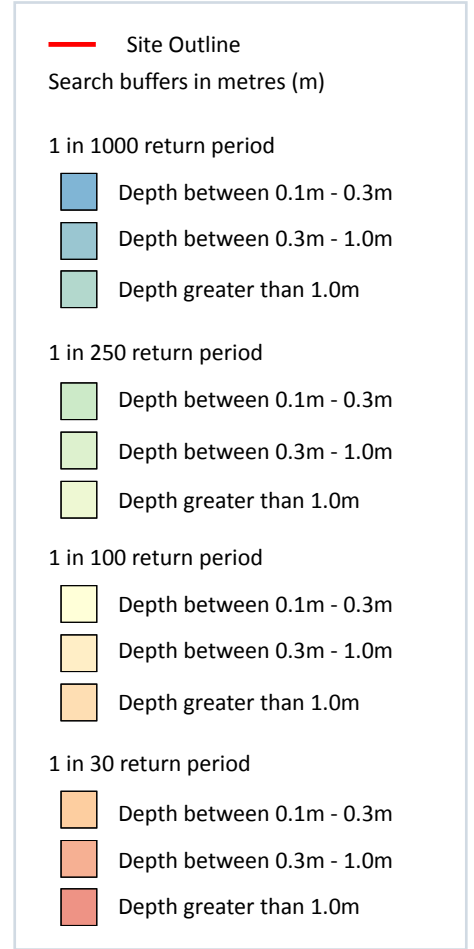
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 99**

Location	Type
On site	Zone 3 - (Fluvial Models)

*This data is sourced from the Environment Agency and Natural Resources Wales.*

## 8 Surface water flooding



### 8.1 Surface water flooding

**Highest risk on site**

**1 in 30 year, 0.3m - 1.0m**

**Highest risk within 50m**

**1 in 30 year, 0.3m - 1.0m**

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 103**

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

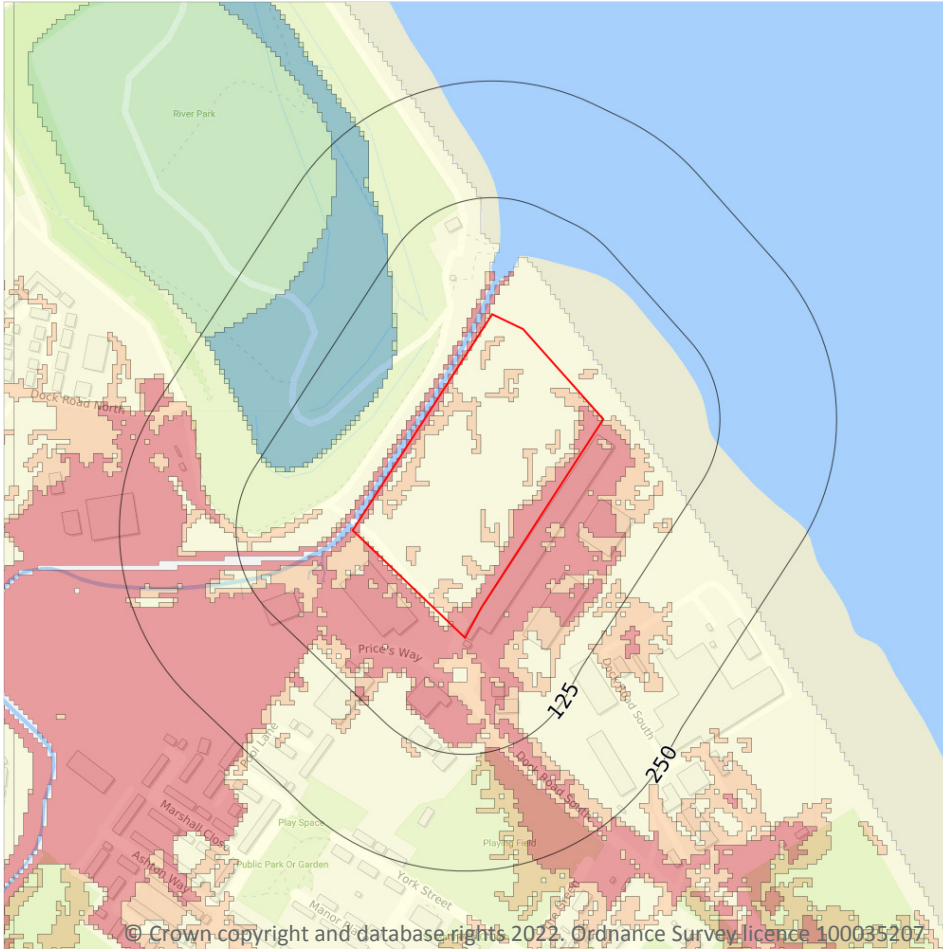
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.3m and 1.0m
1 in 30 year	Between 0.3m and 1.0m

*This data is sourced from Ambiental Risk Analytics.*



## 9 Groundwater flooding



### 9.1 Groundwater flooding

Highest risk on site

High

Highest risk within 50m

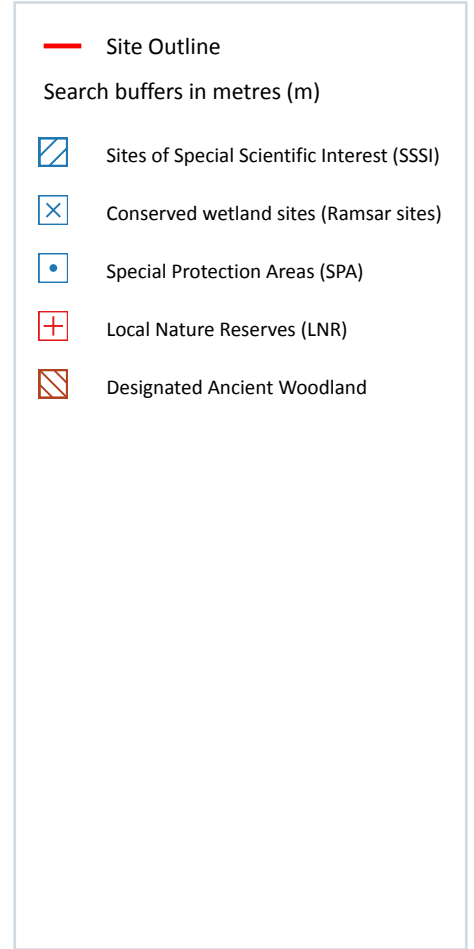
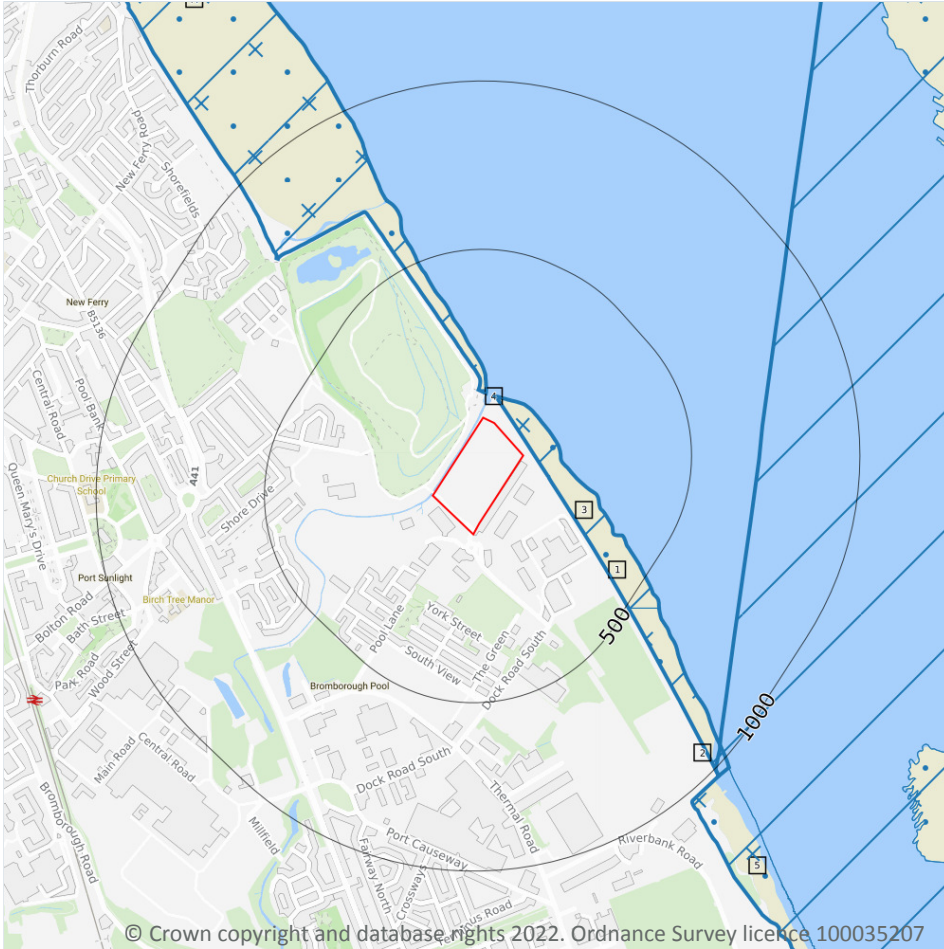
High

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 105**

*This data is sourced from Ambiantal Risk Analytics.*

## 10 Environmental designations



### 10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

4

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 106**

ID	Location	Name	Data source
1	28m NE	New Ferry	Natural England

ID	Location	Name	Data source
A	73m N	New Ferry	Natural England
6	696m E	Mersey Estuary	Natural England
-	1707m S	Dibbinsdale	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

## 10.2 Conserved wetland sites (Ramsar sites)

### Records within 2000m

4

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

Features are displayed on the Environmental designations map on **page 106**

ID	Location	Site	Details
2	28m NE	Name: Mersey Estuary Site status: Listed Data source: Natural England	Overview: The Mersey is a large, sheltered estuary which comprises large areas of saltmarsh and extensive intertidal sand and mudflats, with limited areas of brackish marsh, rocky shoreline and boulder clay cliffs, within a rural and industrial environment. The intertidal flats and saltmarshes provide feeding and roosting sites for large and internationally important populations of waterfowl. During the winter, the site is of major importance for duck and waders. The site is also important during spring and autumn migration periods, particularly for wader populations moving along the west coast of Britain. Ramsar criteria: -
A	73m N	Name: Mersey Estuary Site status: Listed Data source: Natural England	Overview: The Mersey is a large, sheltered estuary which comprises large areas of saltmarsh and extensive intertidal sand and mudflats, with limited areas of brackish marsh, rocky shoreline and boulder clay cliffs, within a rural and industrial environment. The intertidal flats and saltmarshes provide feeding and roosting sites for large and internationally important populations of waterfowl. During the winter, the site is of major importance for duck and waders. The site is also important during spring and autumn migration periods, particularly for wader populations moving along the west coast of Britain. Ramsar criteria: -



ID	Location	Site	Details
B	1455m SE	Name: Mersey Estuary Site status: Listed Data source: Natural England	Overview: The Mersey is a large, sheltered estuary which comprises large areas of saltmarsh and extensive intertidal sand and mudflats, with limited areas of brackish marsh, rocky shoreline and boulder clay cliffs, within a rural and industrial environment. The intertidal flats and saltmarshes provide feeding and roosting sites for large and internationally important populations of waterfowl. During the winter, the site is of major importance for duck and waders. The site is also important during spring and autumn migration periods, particularly for wader populations moving along the west coast of Britain. Ramsar criteria: -
C	1545m NE	Name: Mersey Estuary Site status: Listed Data source: Natural England	Overview: The Mersey is a large, sheltered estuary which comprises large areas of saltmarsh and extensive intertidal sand and mudflats, with limited areas of brackish marsh, rocky shoreline and boulder clay cliffs, within a rural and industrial environment. The intertidal flats and saltmarshes provide feeding and roosting sites for large and internationally important populations of waterfowl. During the winter, the site is of major importance for duck and waders. The site is also important during spring and autumn migration periods, particularly for wader populations moving along the west coast of Britain. Ramsar criteria: -

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

### 10.3 Special Areas of Conservation (SAC)

**Records within 2000m**

**0**

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

### 10.4 Special Protection Areas (SPA)

**Records within 2000m**

**10**

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

Features are displayed on the Environmental designations map on **page 106**





ID	Location	Name	Species of interest	Habitat description	Data source
3	28m NE	Mersey Estuary	Great crested grebe; Common shelduck; Eurasian wigeon; Eurasian teal; Northern pintail; Ringed plover; European golden plover; Grey plover; Northern lapwing; Eurasian curlew; Common redshank; Common redshank; Black-tailed godwit; Dunlin	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Salt marshes, Salt pastures, Salt steppes	Natural England
4	69m NE	Mersey Estuary	Great crested grebe; Common shelduck; Eurasian wigeon; Eurasian teal; Northern pintail; Ringed plover; European golden plover; Grey plover; Northern lapwing; Eurasian curlew; Common redshank; Common redshank; Black-tailed godwit; Dunlin	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Salt marshes, Salt pastures, Salt steppes	Natural England
A	73m N	Mersey Estuary	Great crested grebe; Common shelduck; Eurasian wigeon; Eurasian teal; Northern pintail; Ringed plover; European golden plover; Grey plover; Northern lapwing; Eurasian curlew; Common redshank; Common redshank; Black-tailed godwit; Dunlin	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Salt marshes, Salt pastures, Salt steppes	Natural England
5	509m SE	Mersey Estuary	Great crested grebe; Common shelduck; Eurasian wigeon; Eurasian teal; Northern pintail; Ringed plover; European golden plover; Grey plover; Northern lapwing; Eurasian curlew; Common redshank; Common redshank; Black-tailed godwit; Dunlin	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Salt marshes, Salt pastures, Salt steppes	Natural England
B	1456m SE	Mersey Estuary	Great crested grebe; Common shelduck; Eurasian wigeon; Eurasian teal; Northern pintail; Ringed plover; European golden plover; Grey plover; Northern lapwing; Eurasian curlew; Common redshank; Common redshank; Black-tailed godwit; Dunlin	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Salt marshes, Salt pastures, Salt steppes	Natural England
C	1546m NE	Mersey Estuary	Great crested grebe; Common shelduck; Eurasian wigeon; Eurasian teal; Northern pintail; Ringed plover; European golden plover; Grey plover; Northern lapwing; Eurasian curlew; Common redshank; Common redshank; Black-tailed godwit; Dunlin	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Salt marshes, Salt pastures, Salt steppes	Natural England
-	1698m N	Liverpool Bay / Bae Lerpwl (England)	Red-throated diver; Black (common) scoter; Little gull; Common tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Marine areas, Sea inlets	Natural Resources Wales



ID	Location	Name	Species of interest	Habitat description	Data source
-	1698m N	Liverpool Bay	Red-throated diver; Black (common) scoter; Little gull; Common tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Marine areas, Sea inlets	Natural England
-	1698m N	Liverpool Bay / Bae Lerpwl (England)	Red-throated diver; Black (common) scoter; Little gull; Common tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Marine areas, Sea inlets	Natural Resources Wales
-	1698m N	Liverpool Bay	Red-throated diver; Black (common) scoter; Little gull; Common tern; Little tern	Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Marine areas, Sea inlets	Natural England

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.5 National Nature Reserves (NNR)

**Records within 2000m**

**0**

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.6 Local Nature Reserves (LNR)

**Records within 2000m**

**1**

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on **page 106**

ID	Location	Name	Data source
-	1497m S	Brotherton Park and Dibbinsdale	Natural England

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*



## 10.7 Designated Ancient Woodland

Records within 2000m

3

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 106**

ID	Location	Name	Woodland Type
-	1952m S	Patricks Wood	Ancient & Semi-Natural Woodland
-	1961m S	Patricks Wood	Ancient & Semi-Natural Woodland
-	1962m S	Patricks Wood	Ancient & Semi-Natural Woodland

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

*This data is sourced from the Forestry Commission.*

## 10.10 Marine Conservation Zones

Records within 2000m

0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*



## 10.11 Green Belt

Records within 2000m

0

Areas designated to prevent urban sprawl by keeping land permanently open.

*This data is sourced from the Ministry of Housing, Communities and Local Government.*

## 10.12 Proposed Ramsar sites

Records within 2000m

0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

*This data is sourced from Natural England.*

## 10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

*This data is sourced from Natural England and Natural Resources Wales.*

## 10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

*This data is sourced from Natural England.*

## 10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was



closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

*This data is sourced from Natural England.*

## 10.16 Nitrate Vulnerable Zones

Records within 2000m

2

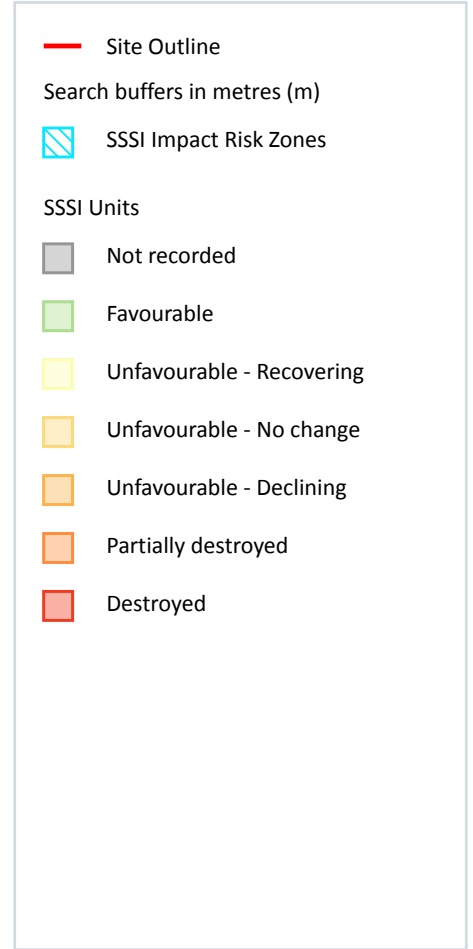
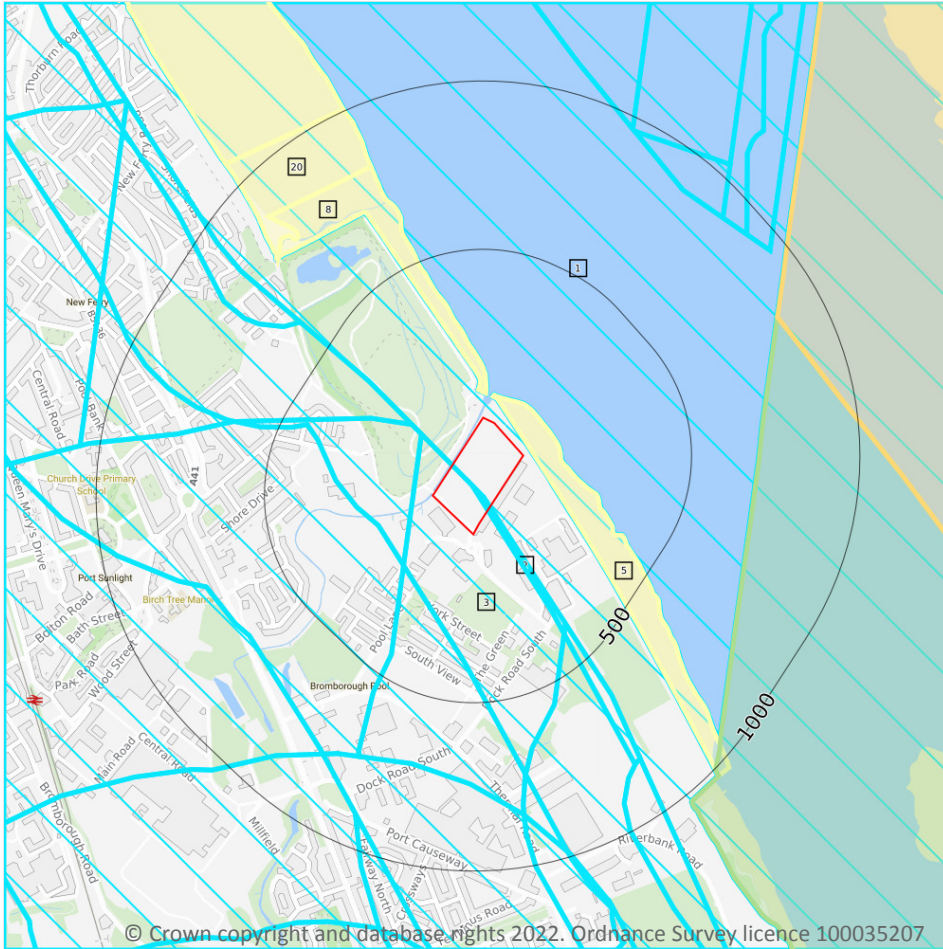
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
524m S	Also includes Clatter Brook. NVZ	Surface Water	631	Existing
1154m SW	Also includes Clatter Brook. NVZ	Surface Water	631	Existing

*This data is sourced from Natural England and Natural Resources Wales.*



## SSSI Impact Zones and Units



### 10.17 SSSI Impact Risk Zones

Records on site

3

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 114**

ID	Location	Type of developments requiring consultation
1	On site	<b>All applications - All planning applications - except householder applications.</b> <b>Notes: New residential developments in this area should consider recreational disturbance impacts on the coastal designated sites. please consider this issue in the hra screening.</b>

ID	Location	Type of developments requiring consultation
2	On site	<p><b>All applications - All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/structures.</b></p> <p><b>Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals.</b></p> <p><b>Wind and Solar - Solar schemes with footprint &gt; 0.5ha, all wind turbines.</b></p> <p><b>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil &amp; gas exploration/extraction.</b></p> <p><b>Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is &gt; 1,000m<sup>2</sup> or footprint exceeds 0.2ha.</b></p> <p><b>Residential - Residential development of 10 units or more.</b></p> <p><b>Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units.</b></p> <p><b>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 200m<sup>2</sup>, manure stores &gt; 250t).</b></p> <p><b>Combustion - General combustion processes &gt;20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</b></p> <p><b>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</b></p> <p><b>Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</b></p> <p><b>Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream.</b></p> <p><b>Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m<sup>2</sup> or more.</b></p> <p><b>Notes: New residential developments in this area should consider recreational disturbance impacts on the coastal designated sites. please consider this issue in the hra screening.</b></p>

ID	Location	Type of developments requiring consultation
3	On site	<p>All applications - All planning applications (except householder) outside or extending outside existing settlements/urban areas affecting greenspace, farmland, semi natural habitats or landscape features such as trees, hedges, streams, rural buildings/structures.</p> <p>Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals.</p> <p>Wind and Solar - Solar schemes with footprint &gt; 0.5ha, all wind turbines.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil &amp; gas exploration/extraction.</p> <p>Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is &gt; 1,000m<sup>2</sup> or footprint exceeds 0.2ha.</p> <p>Residential - Residential development of 50 units or more.</p> <p>Rural residential - Any residential developments outside of existing settlements/urban areas with a total net gain in residential units.</p> <p>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 200m<sup>2</sup>, manure stores &gt; 250t).</p> <p>Combustion - General combustion processes &gt;20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> <p>Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management.</p> <p>Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream.</p> <p>Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m<sup>2</sup> or more.</p> <p>Notes: New residential developments in this area should consider recreational disturbance impacts on the coastal designated sites. please consider this issue in the hra screening.</p>

*This data is sourced from Natural England.*

## 10.18 SSSI Units

Records within 2000m

7

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on **page 114**

ID:	5
Location:	28m NE
SSSI name:	New Ferry
Unit name:	Uml Land
Broad habitat:	Littoral Sediment
Condition:	Unfavourable - Recovering





## Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Black-tailed godwit, Limosa limosa islandica	Not Recorded	01/01/1900
Aggregations of non-breeding birds - Pintail, Anas acuta	Not Recorded	01/01/1900
Littoral sediment	Not Recorded	01/01/1900

ID: 8  
 Location: 73m N  
 SSSI name: New Ferry  
 Unit name: Crown Estate Land  
 Broad habitat: Littoral Sediment  
 Condition: Unfavourable - Recovering  
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Black-tailed godwit, Limosa limosa islandica	Favourable	16/03/2020
Aggregations of non-breeding birds - Pintail, Anas acuta	Unfavourable - Recovering	16/03/2020
Littoral sediment	Favourable	16/03/2020

ID: 17  
 Location: 696m E  
 SSSI name: Mersey Estuary  
 Unit name: Bromborough, Eastham & Elsmere Port  
 Broad habitat: Littoral Sediment  
 Condition: Favourable  
 Reportable features:

Feature name	Feature condition	Date of assessment
	Not Recorded	01/01/1900
>20,000 Non-breeding waterbirds	-	-
Aggregations of non-breeding birds - Curlew, Numenius arquata	Favourable	19/02/2020
Aggregations of non-breeding birds - Dunlin, Calidris alpina alpina	Favourable	19/02/2020
Aggregations of non-breeding birds - Redshank, Tringa totanus	Favourable	19/02/2020
Aggregations of non-breeding birds - Shelduck, Tadorna tadorna	Favourable	19/02/2020



Feature name	Feature condition	Date of assessment
Black-tailed godwit, <i>Limosa limosa islandica</i> - A616, nb	-	-
Dunlin, <i>Calidris alpina alpina</i> - A672, nb	-	-
Golden plover, <i>Pluvialis apricaria</i> - A140, nb	-	-
Pintail, <i>Anas acuta</i> - A054, nb	-	-
Redshank, <i>Tringa totanus</i> - A162, nb	-	-
SM4-28 - Saltmarsh	Not Recorded	01/01/1900
Shelduck, <i>Tadorna tadorna</i> - A048, nb	-	-
Teal, <i>Anas crecca</i> - A704, nb	-	-
Waterbird assemblage	-	-

ID: 20  
 Location: 766m NW  
 SSSI name: New Ferry  
 Unit name: Uml Land  
 Broad habitat: Littoral Sediment  
 Condition: Unfavourable - Recovering  
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Black-tailed godwit, <i>Limosa limosa islandica</i>	Not Recorded	01/01/1900
Aggregations of non-breeding birds - Pintail, <i>Anas acuta</i>	Not Recorded	01/01/1900
Littoral sediment	Not Recorded	01/01/1900

ID: 23  
 Location: 860m NE  
 SSSI name: Mersey Estuary  
 Unit name: Mersey North Bank  
 Broad habitat: Littoral Sediment  
 Condition: Unfavourable - No change  
 Reportable features:

Feature name	Feature condition	Date of assessment
	-	-

Feature name	Feature condition	Date of assessment
	Favourable	20/12/2010
>20,000 Non-breeding waterbirds	-	-
Aggregations of non-breeding birds - Curlew, Numenius arquata	Favourable	18/02/2020
Aggregations of non-breeding birds - Dunlin, Calidris alpina alpina	Favourable	18/02/2020
Aggregations of non-breeding birds - Golden plover, Pluvialis apricaria	Unfavourable - No change	17/02/2020
Aggregations of non-breeding birds - Pintail, Anas acuta	Unfavourable - No change	24/02/2020
Aggregations of non-breeding birds - Redshank, Tringa totanus	Favourable	18/02/2020
Aggregations of non-breeding birds - Shelduck, Tadorna tadorna	Favourable	18/02/2020
Aggregations of non-breeding birds - Teal, Anas crecca	Unfavourable - No change	24/02/2020
Aggregations of non-breeding birds - Wigeon, Anas penelope	Unfavourable - No change	24/02/2020
Black-tailed godwit, Limosa limosa islandica - A616, nb	-	-
Dunlin, Calidris alpina alpina - A672, nb	-	-
Golden plover, Pluvialis apricaria - A140, nb	-	-
Pintail, Anas acuta - A054, nb	-	-
Redshank, Tringa totanus - A162, nb	-	-
Shelduck, Tadorna tadorna - A048, nb	-	-
Teal, Anas crecca - A704, nb	Unfavourable - No change	17/02/2020
Waterbird assemblage	-	-

**ID:** 28  
**Location:** 1005m NW  
**SSSI name:** New Ferry  
**Unit name:** Crown Estate Land  
**Broad habitat:** Littoral Sediment  
**Condition:** Unfavourable - Recovering  
**Reportable features:**

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Black-tailed godwit, Limosa limosa islandica	Favourable	16/03/2020
Aggregations of non-breeding birds - Pintail, Anas acuta	Unfavourable - Recovering	16/03/2020
Littoral sediment	Favourable	16/03/2020



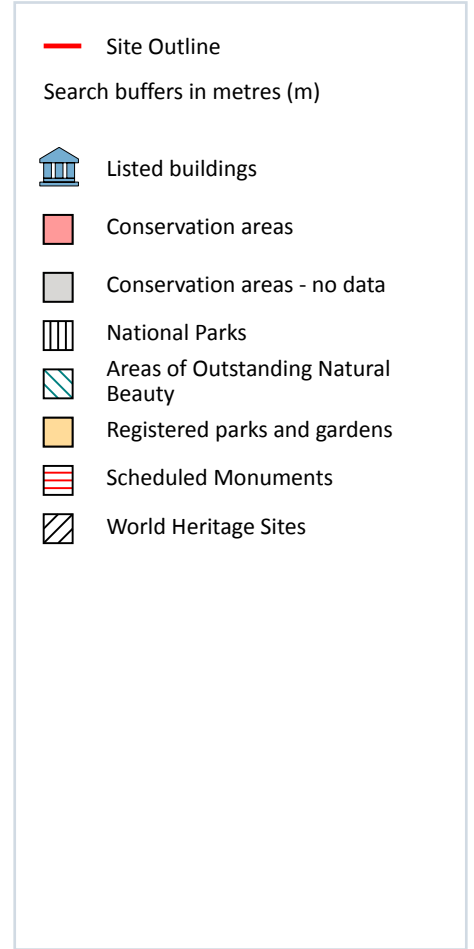
ID: -  
Location: 1707m S  
SSSI name: Dibbinsdale  
Unit name: 6  
Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland  
Condition: Unfavourable - Declining  
Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Mixed: Lowland fen, Woodland	Unfavourable - Declining	30/06/2017
Upland mixed ashwoods	Unfavourable - Declining	04/07/2020
Wet woodland	Unfavourable - Recovering	22/05/2013

*This data is sourced from Natural England and Natural Resources Wales.*



## 11 Visual and cultural designations



### 11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

## 11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

*This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.*

## 11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

*This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.*

## 11.4 Listed Buildings

Records within 250m

0

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

## 11.5 Conservation Areas

Records within 250m

1

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.



Features are displayed on the Visual and cultural designations map on **page 121**

ID	Location	Name	District	Date of designation
1	120m S	Bromborough Pool	Wirral	10/1986

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

## 11.6 Scheduled Ancient Monuments

**Records within 250m**

**0**

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

## 11.7 Registered Parks and Gardens

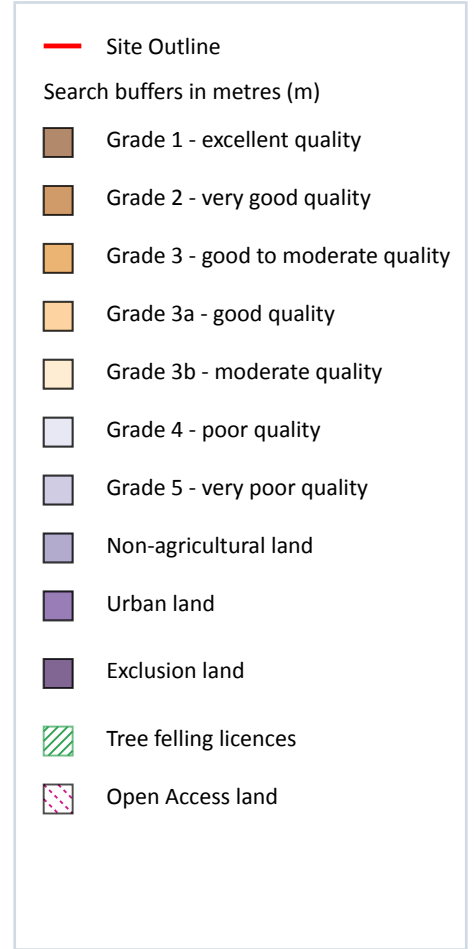
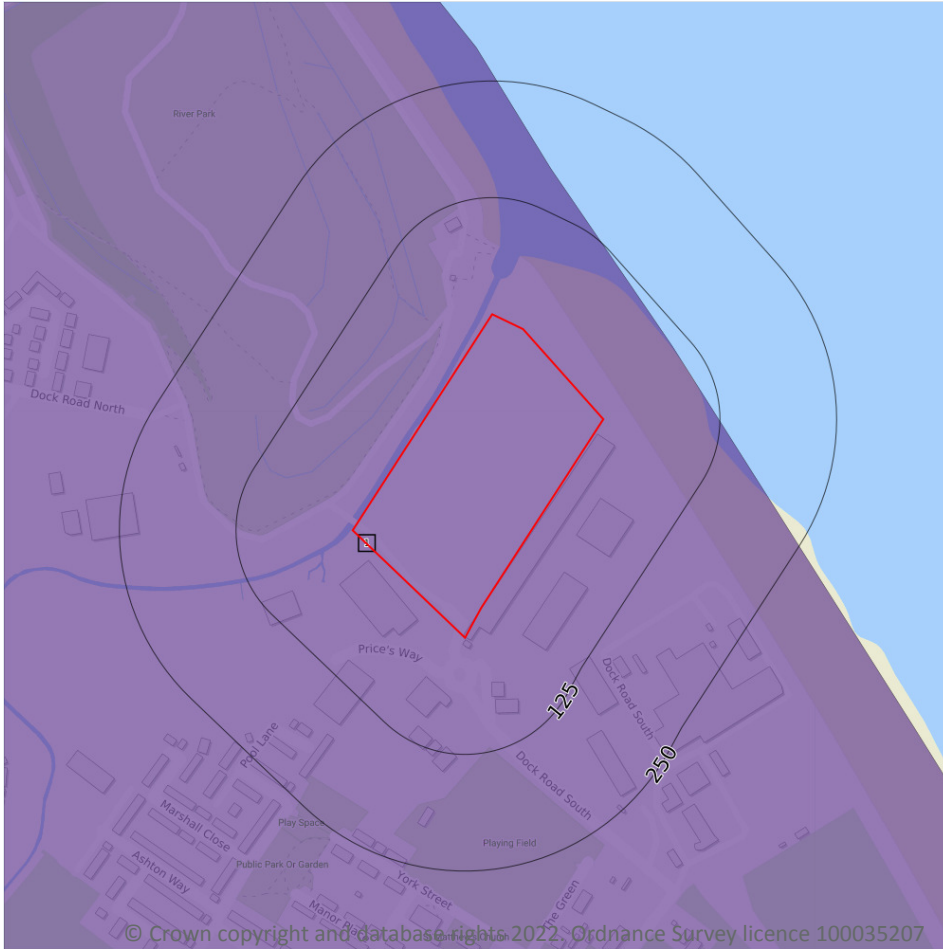
**Records within 250m**

**0**

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

*This data is sourced from Historic England, Cadw and Historic Environment Scotland.*

## 12 Agricultural designations



### 12.1 Agricultural Land Classification

Records within 250m

1

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 124**

ID	Location	Classification	Description
1	On site	Urban	-

*This data is sourced from Natural England.*



## 12.2 Open Access Land

Records within 250m

0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

*This data is sourced from Natural England and Natural Resources Wales.*

## 12.3 Tree Felling Licences

Records within 250m

0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

*This data is sourced from the Forestry Commission.*

## 12.4 Environmental Stewardship Schemes

Records within 250m

0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

*This data is sourced from Natural England.*

## 12.5 Countryside Stewardship Schemes

Records within 250m

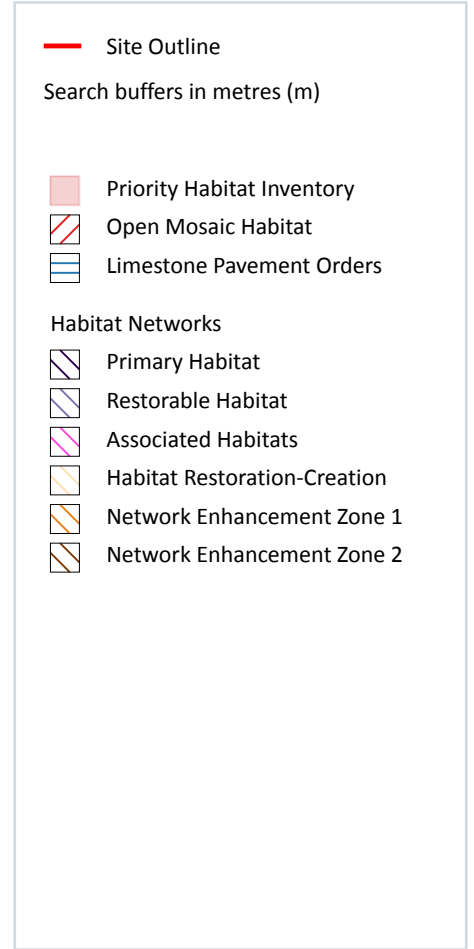
0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

*This data is sourced from Natural England.*



## 13 Habitat designations



### 13.1 Priority Habitat Inventory

Records within 250m

2

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on **page 126**

ID	Location	Main Habitat	Other habitats
1	36m NE	Mudflats	Main habitat: MUDFL (INV > 50%)
2	73m N	Mudflats	Main habitat: MUDFL (INV > 50%)

*This data is sourced from Natural England.*

## 13.2 Habitat Networks

Records within 250m

0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

*This data is sourced from Natural England.*

## 13.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

*This data is sourced from Natural England.*

## 13.4 Limestone Pavement Orders

Records within 250m

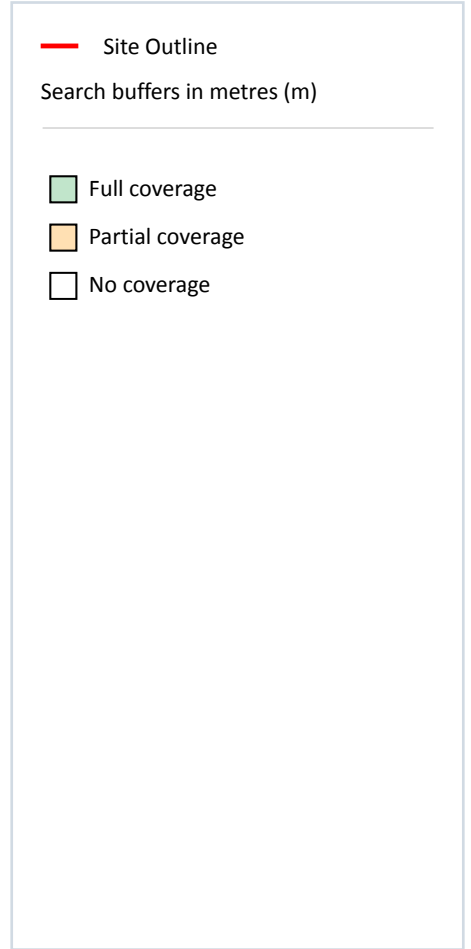
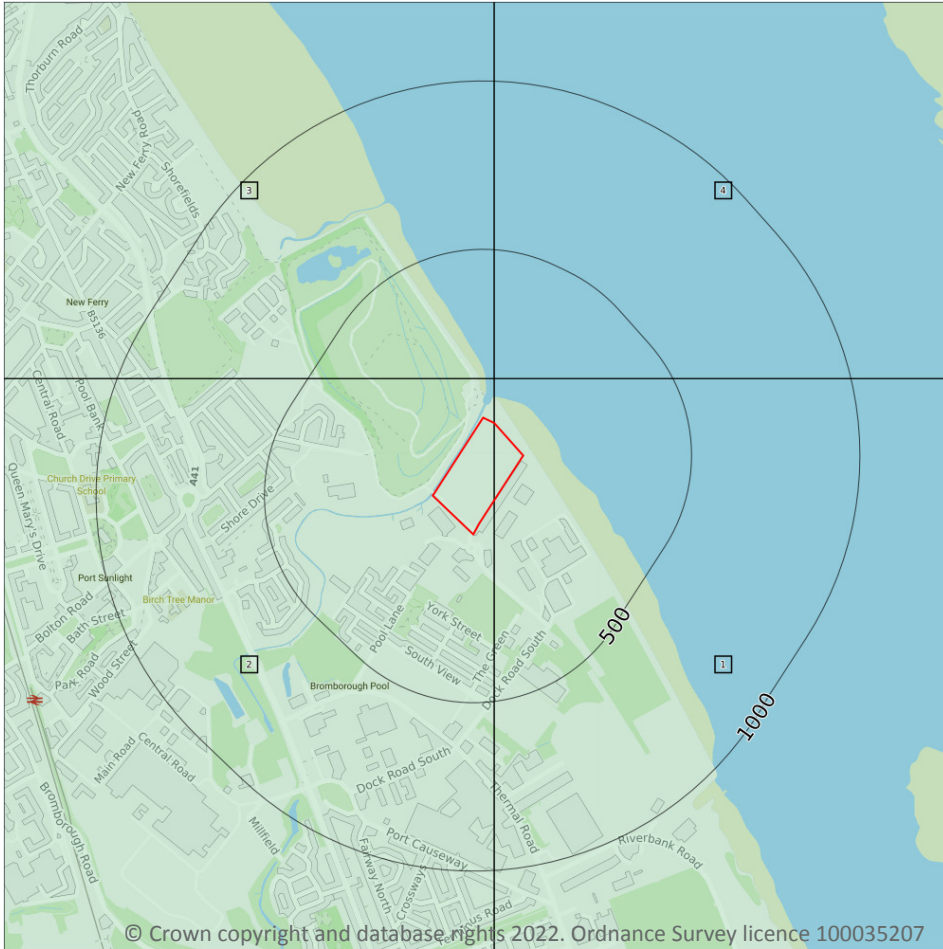
0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

*This data is sourced from Natural England.*



## 14 Geology 1:10,000 scale - Availability



### 14.1 10k Availability

Records within 500m

4

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 128**

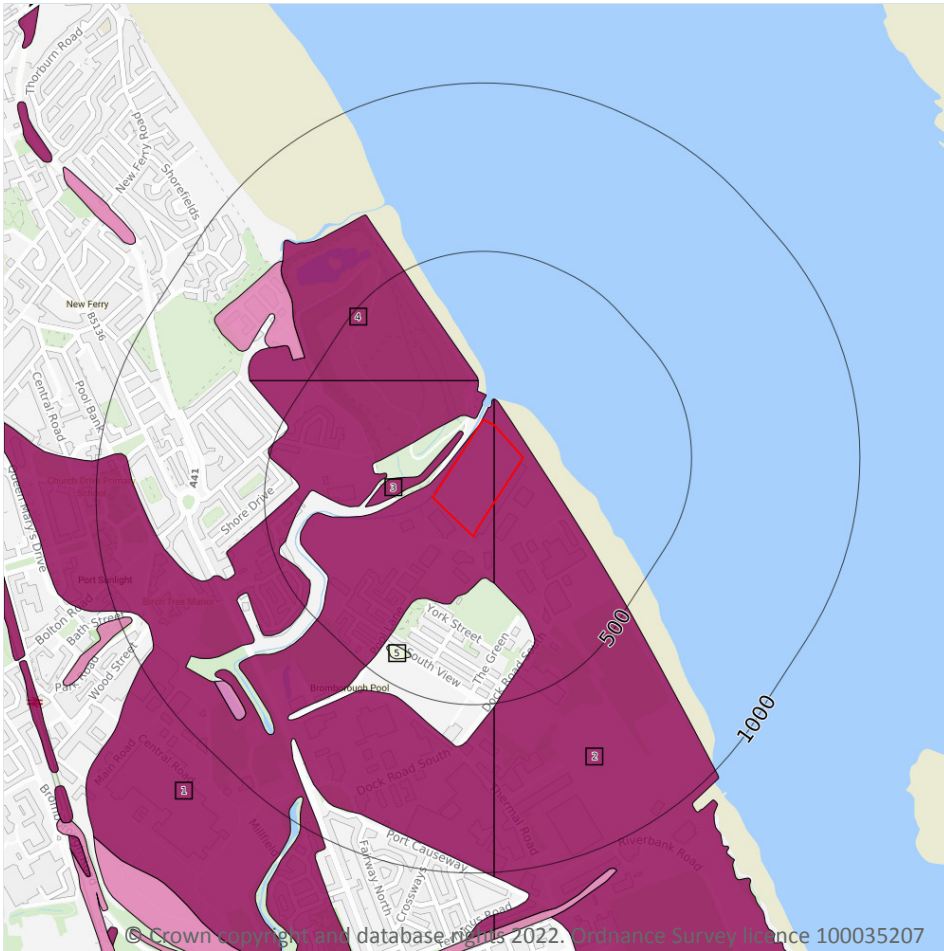
ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SJ38SE
2	On site	Full	Full	Full	Full	SJ38SW
3	116m N	Full	Full	Full	Full	SJ38NW
4	121m N	Full	Full	Full	No coverage	SJ38NE



*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Artificial and made ground



### 14.2 Artificial and made ground (10k)

**Records within 500m** **5**

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 130**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-FILLU	Made Ground (Undivided)	Fill
2	On site	MGR-FILLU	Made Ground (Undivided)	Fill
3	26m NW	MGR-FILLU	Made Ground (Undivided)	Fill
4	117m N	MGR-FILLU	Made Ground (Undivided)	Fill

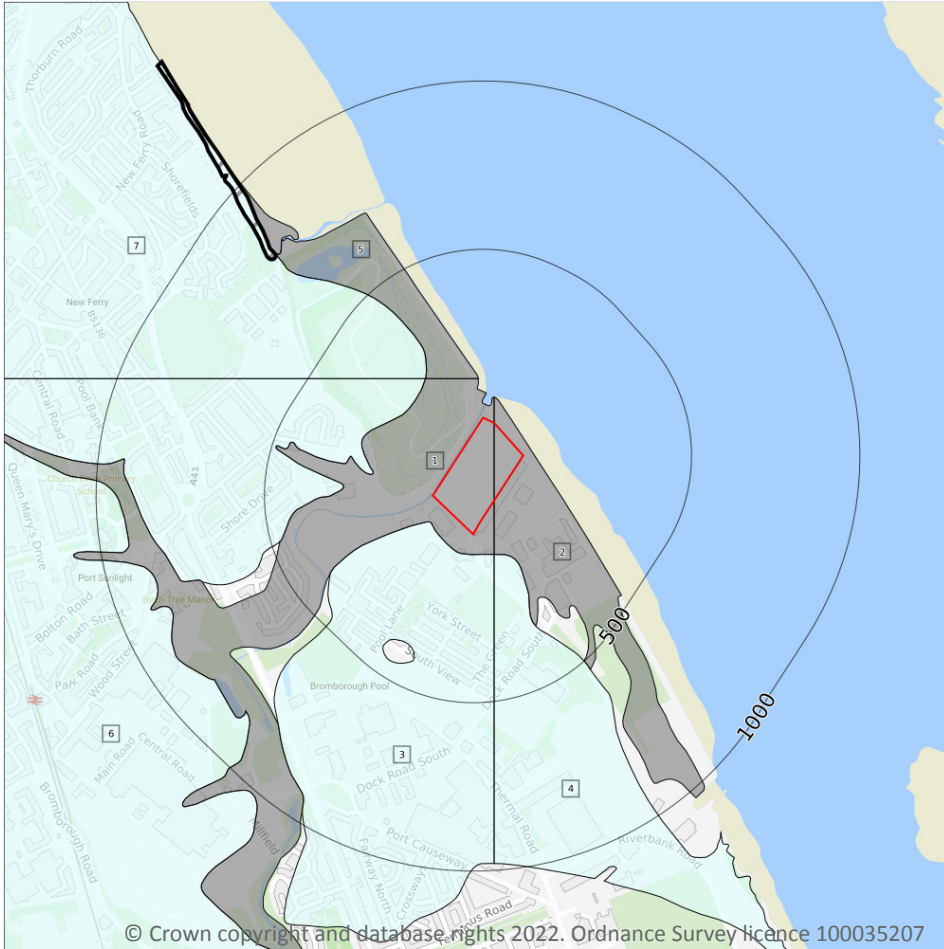


ID	Location	LEX Code	Description	Rock description
5	395m SW	WMGR-FILLU	Infilled Ground	Fill

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (10k)
- Superficial geology (10k)  
Please see table for more details.

### 14.3 Superficial geology (10k)

Records within 500m

7

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 132**

ID	Location	LEX Code	Description	Rock description
1	On site	ITDU-CZS	Intertidal Deposits (undifferentiated) - Silty Sandy Clay	Clay, Silty, Sandy
2	On site	ITDU-CZS	Intertidal Deposits (undifferentiated) - Silty Sandy Clay	Clay, Silty, Sandy
3	60m S	TILLD-CSVL	Till, Devensian - Sandy Gravelly Cobbly Clay	Clay, Sandy, Gravelly, Cobbly
4	86m SE	TILLD-CSVL	Till, Devensian - Sandy Gravelly Cobbly Clay	Clay, Sandy, Gravelly, Cobbly





ID	Location	LEX Code	Description	Rock description
5	117m N	ITDU-CZS	Intertidal Deposits (undifferentiated) - Silty Sandy Clay	Clay, Silty, Sandy
6	189m W	TILLD-CSVL	Till, Devensian - Sandy Gravelly Cobbly Clay	Clay, Sandy, Gravelly, Cobbly
7	207m NW	TILLD-CSVL	Till, Devensian - Sandy Gravelly Cobbly Clay	Clay, Sandy, Gravelly, Cobbly

*This data is sourced from the British Geological Survey.*

## 14.4 Landslip (10k)

**Records within 500m**

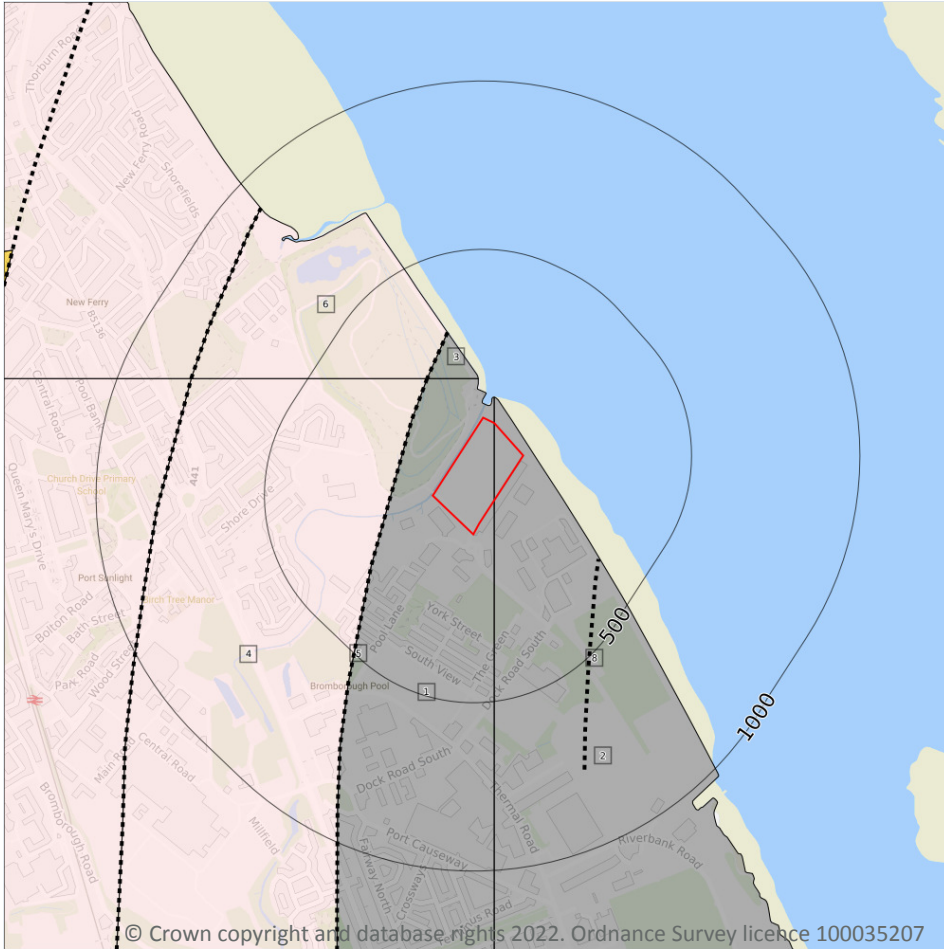
**0**

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

*This data is sourced from the British Geological Survey.*



## Geology 1:10,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- - - - Bedrock faults and other linear features (10k)
- Bedrock geology (10k)  
Please see table for more details.

### 14.5 Bedrock geology (10k)

Records within 500m

5

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 134**

ID	Location	LEX Code	Description	Rock age
1	On site	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
2	On site	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
3	117m N	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
4	120m W	WLSF-SDST	Wilmslow Sandstone Formation - Sandstone	Early Triassic Epoch



ID	Location	LEX Code	Description	Rock age
6	203m NW	WLSF-SDST	Wilmslow Sandstone Formation - Sandstone	Early Triassic Epoch

*This data is sourced from the British Geological Survey.*

## 14.6 Bedrock faults and other linear features (10k)

<b>Records within 500m</b>	<b>3</b>
----------------------------	----------

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 134**

ID	Location	Category	Description
5	120m W	FAULT	Normal fault, inferred
7	203m NW	FAULT	Normal fault, inferred
8	355m SE	FAULT	Normal fault, inferred

*This data is sourced from the British Geological Survey.*

## 15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

---

□ Geological map tile

### 15.1 50k Availability

Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

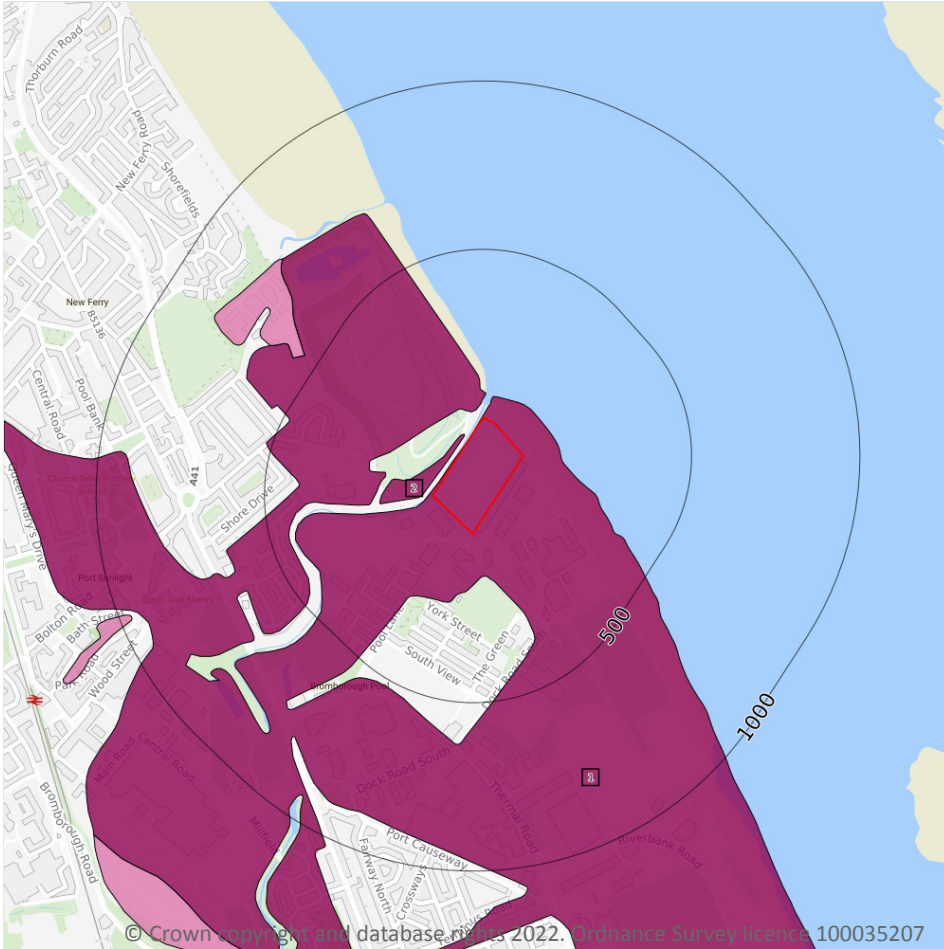
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 136**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW096_liverpool_v4

This data is sourced from the British Geological Survey.



## Geology 1:50,000 scale - Artificial and made ground



### 15.2 Artificial and made ground (50k)

Records within 500m

2

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 137**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	17m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

*This data is sourced from the British Geological Survey.*

### 15.3 Artificial ground permeability (50k)

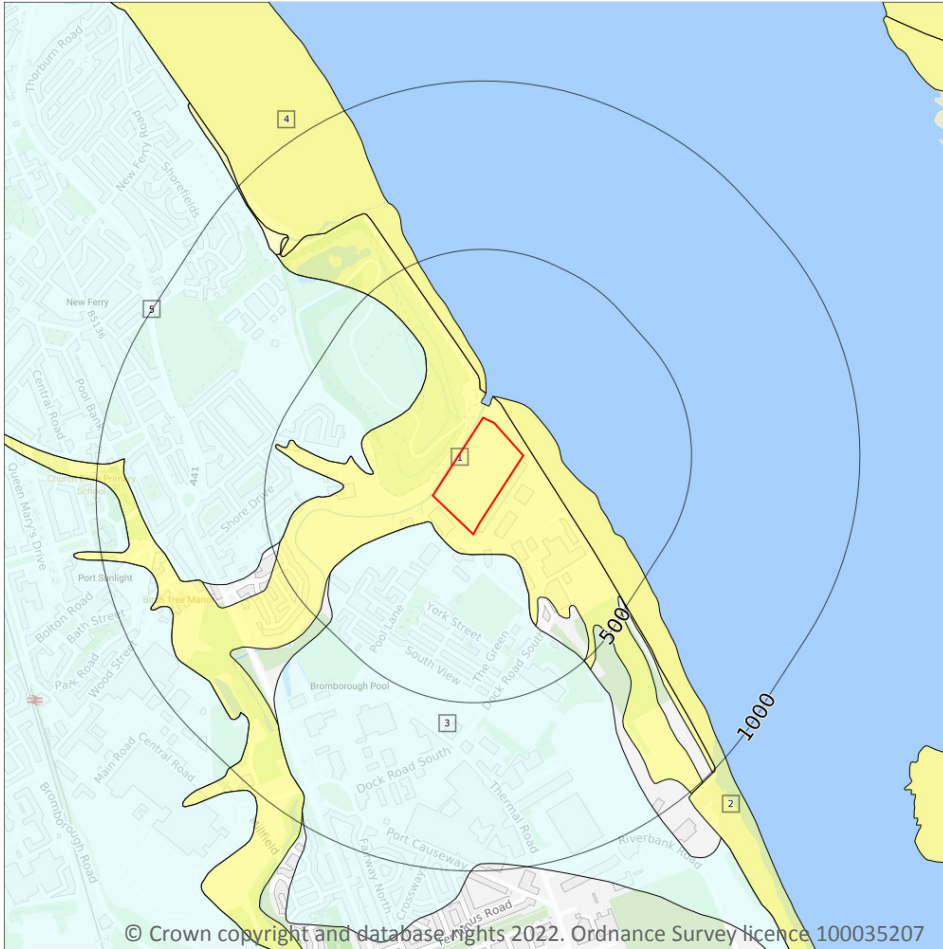
**Records within 50m** **3**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
<b>On site</b>	<b>Mixed</b>	<b>Very High</b>	<b>Low</b>
<b>On site</b>	<b>Mixed</b>	<b>Very High</b>	<b>Low</b>
17m W	Mixed	Very High	Low

*This data is sourced from the British Geological Survey.*

## Geology 1:50,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (50k)
- Superficial geology (50k)  
Please see table for more details.

### 15.4 Superficial geology (50k)

Records within 500m

5

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 139**

ID	Location	LEX Code	Description	Rock description
1	On site	TFD-XCZS	TIDAL FLAT DEPOSITS	CLAY, SILT AND SAND
2	25m NE	TFD-S	TIDAL FLAT DEPOSITS	SAND
3	60m S	TILLD-CSVL	TILL, DEVENSIAN	CLAY, SANDY, GRAVELLY, COBBLY
4	73m N	TFD-S	TIDAL FLAT DEPOSITS	SAND



ID	Location	LEX Code	Description	Rock description
5	188m W	TILLD-CSVL	TILL, DEVENSIAN	CLAY, SANDY, GRAVELLY, COBBLY

*This data is sourced from the British Geological Survey.*

## 15.5 Superficial permeability (50k)

<b>Records within 50m</b>	<b>3</b>
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
<b>On site</b>	<b>Intergranular</b>	<b>Moderate</b>	<b>Very Low</b>
<b>On site</b>	<b>Intergranular</b>	<b>Moderate</b>	<b>Very Low</b>
25m SE	Intergranular	High	High

*This data is sourced from the British Geological Survey.*

## 15.6 Landslip (50k)

<b>Records within 500m</b>	<b>0</b>
----------------------------	----------

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

*This data is sourced from the British Geological Survey.*

## 15.7 Landslip permeability (50k)

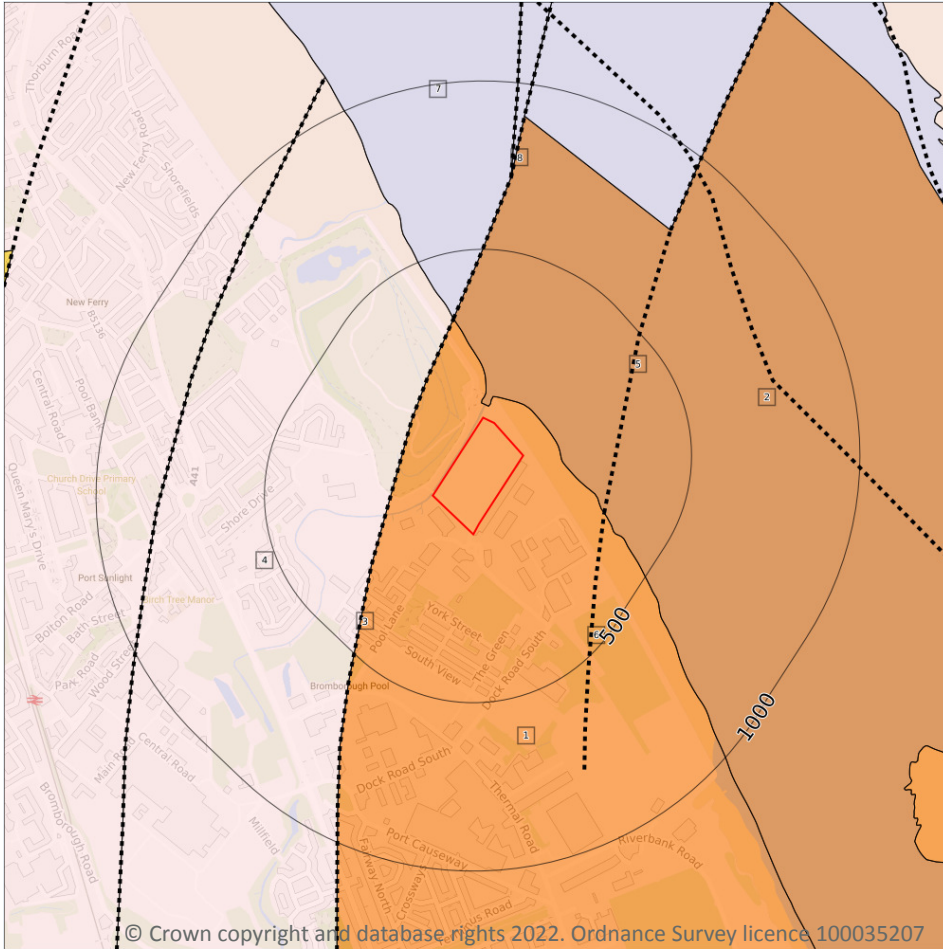
<b>Records within 50m</b>	<b>0</b>
---------------------------	----------

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

*This data is sourced from the British Geological Survey.*



## Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (50k)
- Bedrock geology (50k)  
Please see table for more details.

### 15.8 Bedrock geology (50k)

Records within 500m

4

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 141**

ID	Location	LEX Code	Description	Rock age
1	On site	CHES-PESST	CHESTER FORMATION - SANDSTONE, PEBBLY (GRAVELLY)	OLENEKIAN
2	38m NE	CHES-PESST	CHESTER FORMATION - SANDSTONE, PEBBLY (GRAVELLY)	OLENEKIAN
4	120m W	WLSF-SDST	WILMSLOW SANDSTONE FORMATION - SANDSTONE	-
7	307m N	WLSF-SDST	WILMSLOW SANDSTONE FORMATION - SANDSTONE	-



*This data is sourced from the British Geological Survey.*

## 15.9 Bedrock permeability (50k)

**Records within 50m**

**2**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Moderate
On site	Mixed	High	Moderate

*This data is sourced from the British Geological Survey.*

## 15.10 Bedrock faults and other linear features (50k)

**Records within 500m**

**4**

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

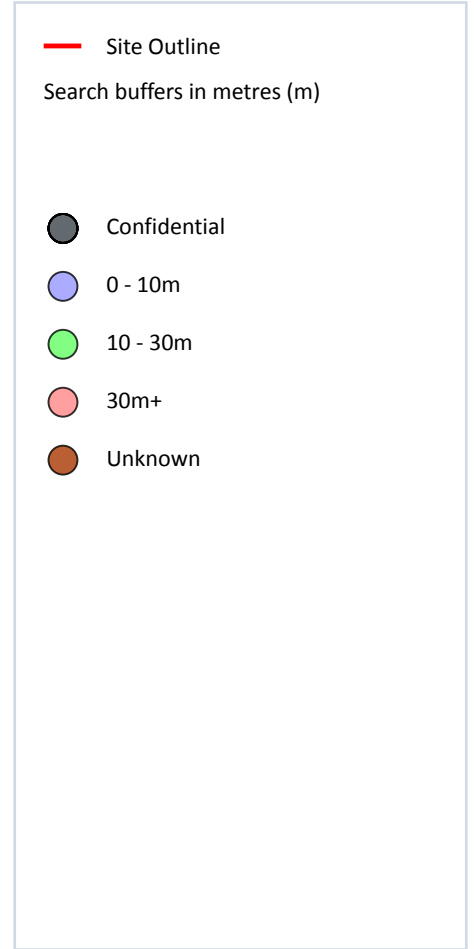
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 141**

ID	Location	Category	Description
3	120m W	FAULT	Fault, inferred
5	269m E	FAULT	Fault, inferred
6	295m SE	FAULT	Fault, inferred
8	307m N	FAULT	Fault, inferred

*This data is sourced from the British Geological Survey.*



## 16 Boreholes



### 16.1 BGS Boreholes

Records within 250m

35

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 143**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	334830 384660	BROMBOROUGH WWTW 116	15.1	N	<a href="#">158939</a>
2	On site	334910 384590	BROMBOROUGH WWTW 115	16.0	N	<a href="#">158938</a>



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	21m NW	334810 384680	BROMBOROUGH DOCK NORTH EXTENSION TPBH1/95	-	Y	N/A
A	21m NW	334810 384680	BROMBOROUGH WWTW 117 & 117A	15.8	N	<a href="#">158940</a>
A	21m NW	334810 384680	BROMBOROUGH DOCK NORTH EXTENSION 1/95	-	Y	N/A
B	25m NW	334870 384780	BROMBOROUGH DOCK NORTH EXTENSION TPBH2/95	-	Y	N/A
B	25m NW	334870 384780	BROMBOROUGH DOCK NORTH EXTENSION 2/95	-	Y	N/A
3	38m W	334780 384660	BROMBOROUGH DOCK NORTH EXTENSION TP1/95	-	Y	N/A
4	69m W	334750 384640	BROMBOROUGH DOCK NORTH EXTENSION TP2/95	-	Y	N/A
5	107m NW	334850 384900	BROMBOROUGH DOCK NORTH EXTENSION TP5/95	-	Y	N/A
6	108m W	334710 384640	BROMBOROUGH WWTW 118	11.9	N	<a href="#">158941</a>
C	110m SW	334860 384460	BROMBOROUGH DOCK WIRRAL TP 5	-	Y	N/A
7	111m W	334710 384680	BROMBOROUGH DOCK NORTH EXTENSION TP4/95	-	Y	N/A
8	113m NW	334720 384710	BROMBOROUGH DOCK NORTH EXTENSION TP3/95	-	Y	N/A
C	118m SW	334890 384430	BROMBOROUGH DOCK WIRRAL TP 6	-	Y	N/A
C	119m SW	334870 384440	BROMBOROUGH DOCK WIRRAL TP 4	-	Y	N/A
C	123m S	334900 384420	BROMBOROUGH DOCK WIRRAL TP 7	-	Y	N/A
C	140m SW	334880 384410	BROMBOROUGH DOCK WIRRAL TP 8	-	Y	N/A
9	150m S	334910 384390	BROMBOROUGH DOCK WIRRAL TP 3	-	Y	N/A
10	152m NW	334810 384920	BROMBOROUGH DOCK NORTH EXTENSION TP6/95	-	Y	N/A
11	155m SW	334850 384410	BROMBOROUGH DOCK WIRRAL TP 1	-	Y	N/A
12	156m NW	334760 384850	BROMBOROUGH DOCK NORTH EXTENSION TP8/95	-	Y	N/A
13	174m S	334890 384370	BROMBOROUGH DOCK WIRRAL TP 2	-	Y	N/A
14	180m NW	334750 384880	BROMBOROUGH DOCK NORTH EXTENSION TP7/95	-	Y	N/A
15	180m SW	334850 384380	BROMBOROUGH DOCK WIRRAL TP 9	-	Y	N/A

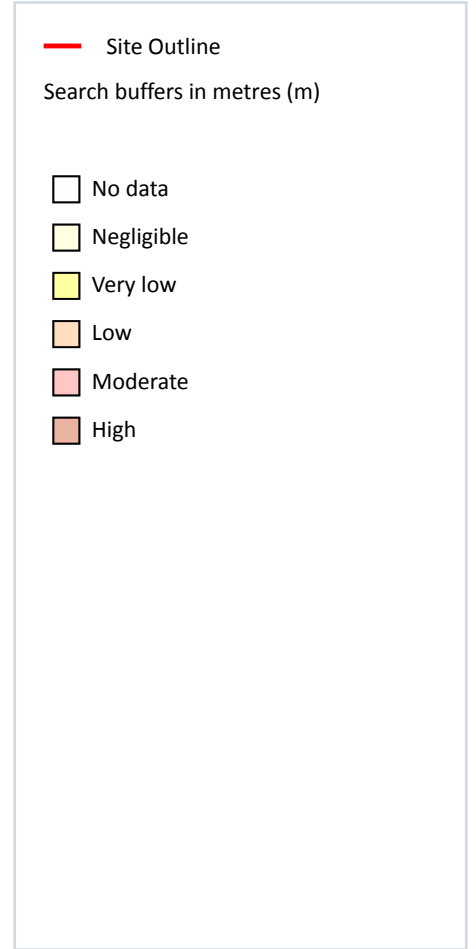
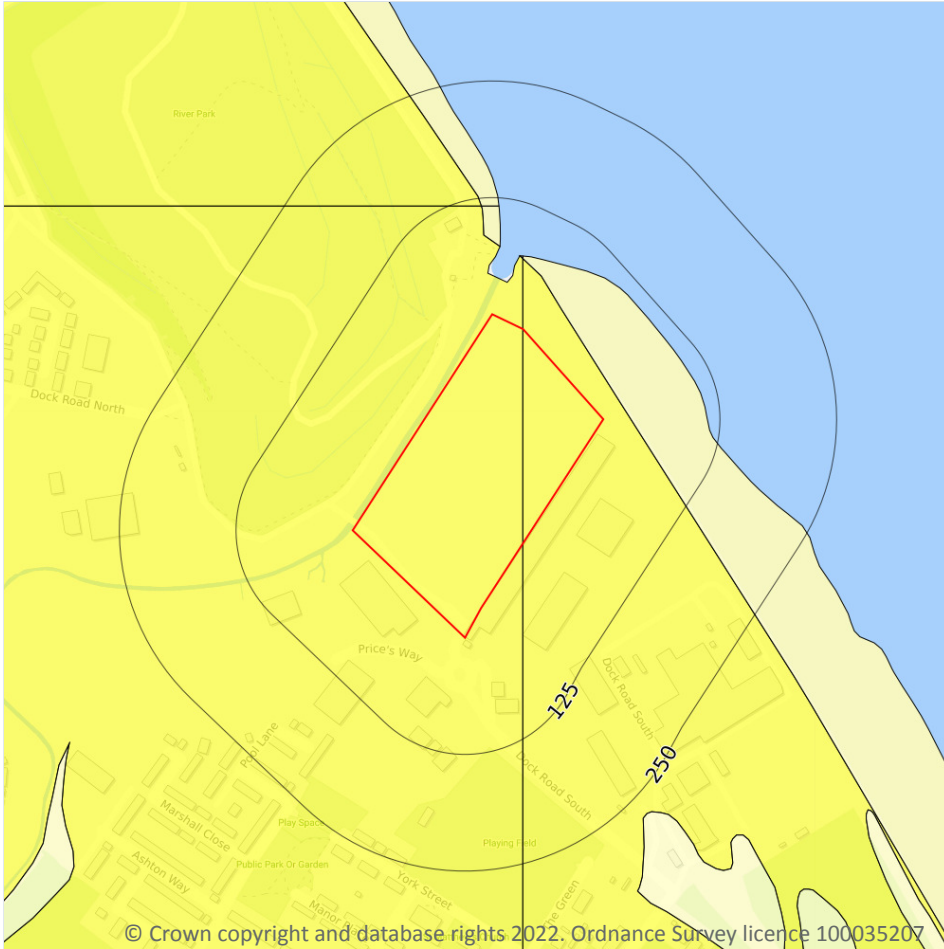


ID	Location	Grid reference	Name	Length	Confidential	Web link
16	194m NW	334650 384750	BROMBOROUGH WWTW 119	6.0	N	<a href="#">158942</a>
17	201m NW	334890 385070	BROMBOROUGH DOCK B	-	Y	N/A
18	210m NW	334760 384950	BROMBOROUGH DOCK NORTH EXTENSION 4/95	-	Y	N/A
D	218m NW	334640 384780	BROMBOROUGH DOCK NORTH EXTENSION TP10/95	-	Y	N/A
D	218m NW	334640 384780	BROMBOROUGH WWTW 120	5.2	N	<a href="#">158943</a>
19	220m NW	334670 384830	BROMBOROUGH DOCK NORTH EXTENSION TP9/95	-	Y	N/A
20	230m NW	334790 385030	BROMBOROUGH DOCK F	-	Y	N/A
21	232m NW	334760 384990	BROMBOROUGH DOCK NORTH EXTENSION 3/95	-	Y	N/A
E	244m NW	334610 384780	BROMBOROUGH DOCK LANDFILL LEACHATE TREATMENT FACILITY 103	-	Y	N/A
E	247m NW	334600 384770	BROMBOROUGH DOCK LANDFILL LEACHATE TREATMENT FACILITY 104	-	Y	N/A

*This data is sourced from the British Geological Survey.*



## 17 Natural ground subsidence - Shrink swell clays



### 17.1 Shrink swell clays

#### Records within 50m

2

The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

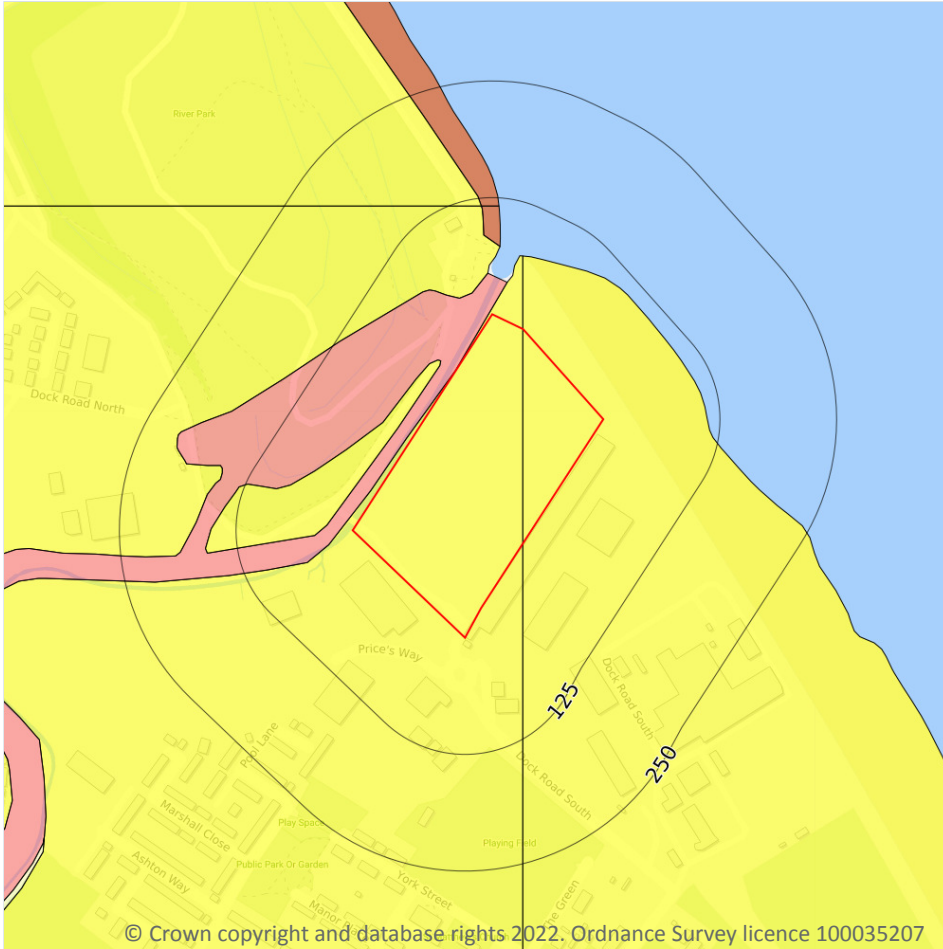
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 146**

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.
25m NE	Negligible	Ground conditions predominantly non-plastic.

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Running sands



### 17.2 Running sands

Records within 50m

3

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 147**

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

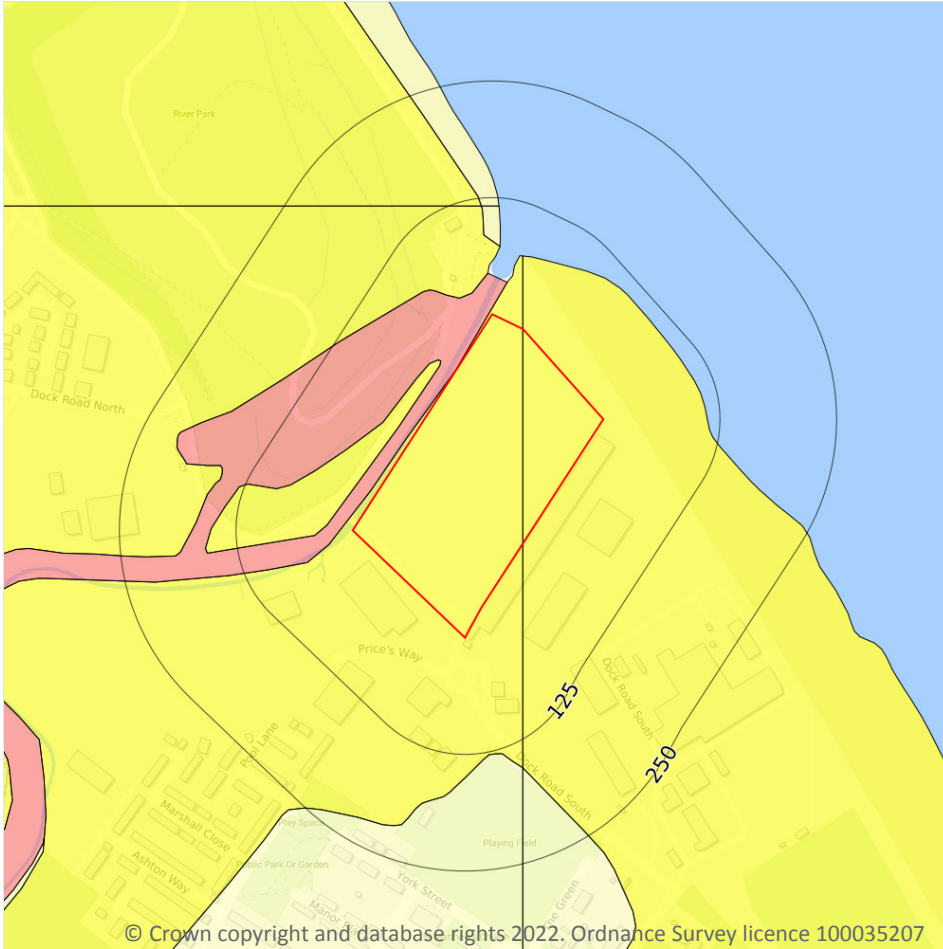
Location	Hazard rating	Details
0m NW	Moderate	Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.
17m NW	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

*This data is sourced from the British Geological Survey.*





## Natural ground subsidence - Compressible deposits



### 17.3 Compressible deposits

Records within 50m

3

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 149**

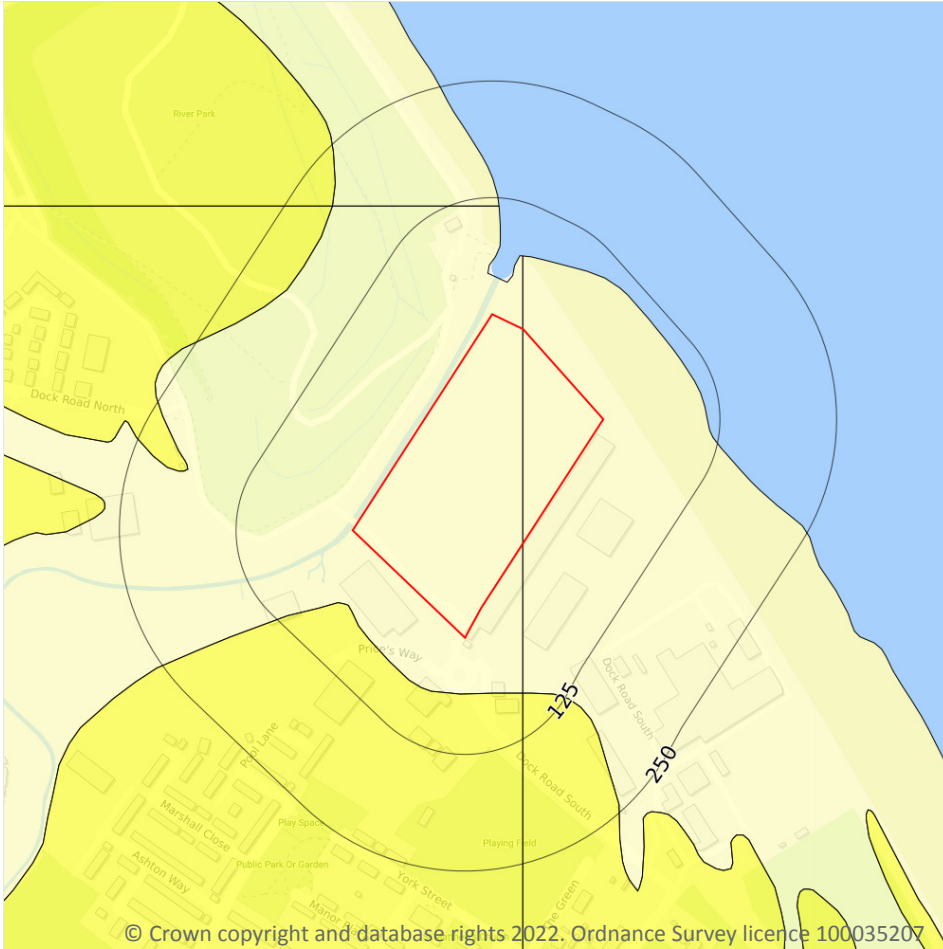
Location	Hazard rating	Details
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

Location	Hazard rating	Details
0m NW	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
17m NW	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Collapsible deposits



### 17.4 Collapsible deposits

Records within 50m

1

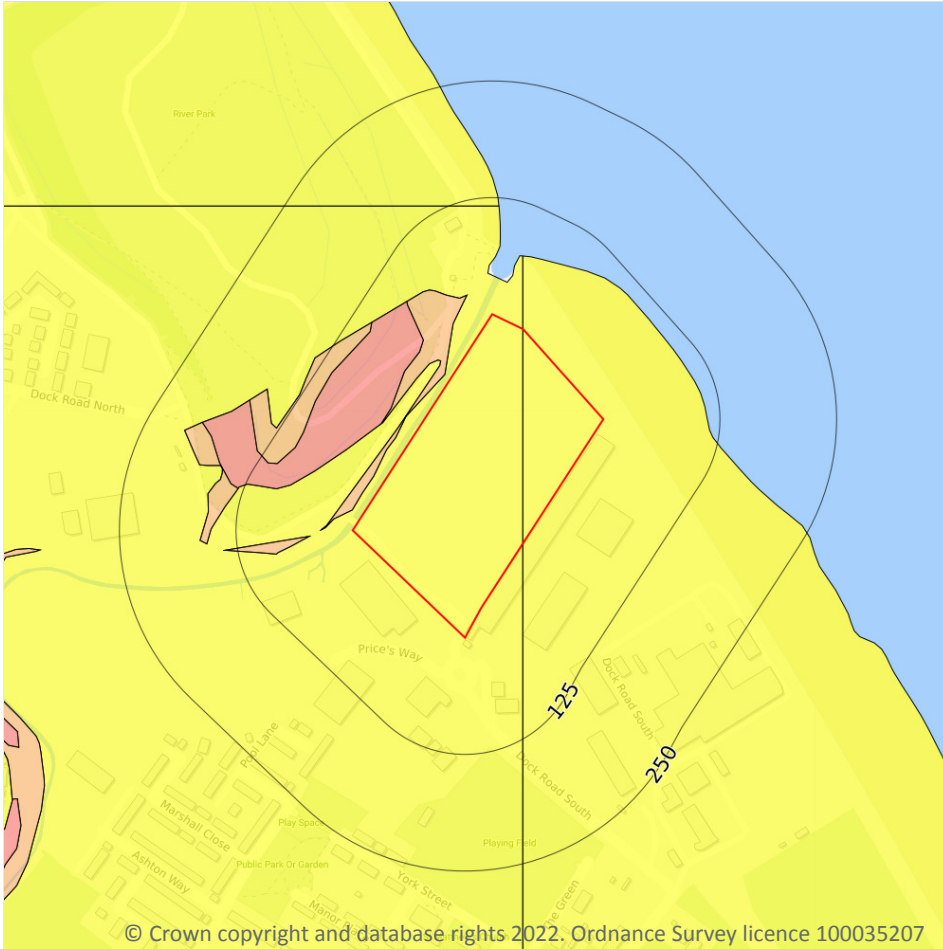
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 151**

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

*This data is sourced from the British Geological Survey.*

## Natural ground subsidence - Landslides



### 17.5 Landslides

#### Records within 50m

4

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 152**

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
8m NW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
36m NW	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
47m W	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Ground dissolution of soluble rocks



### 17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

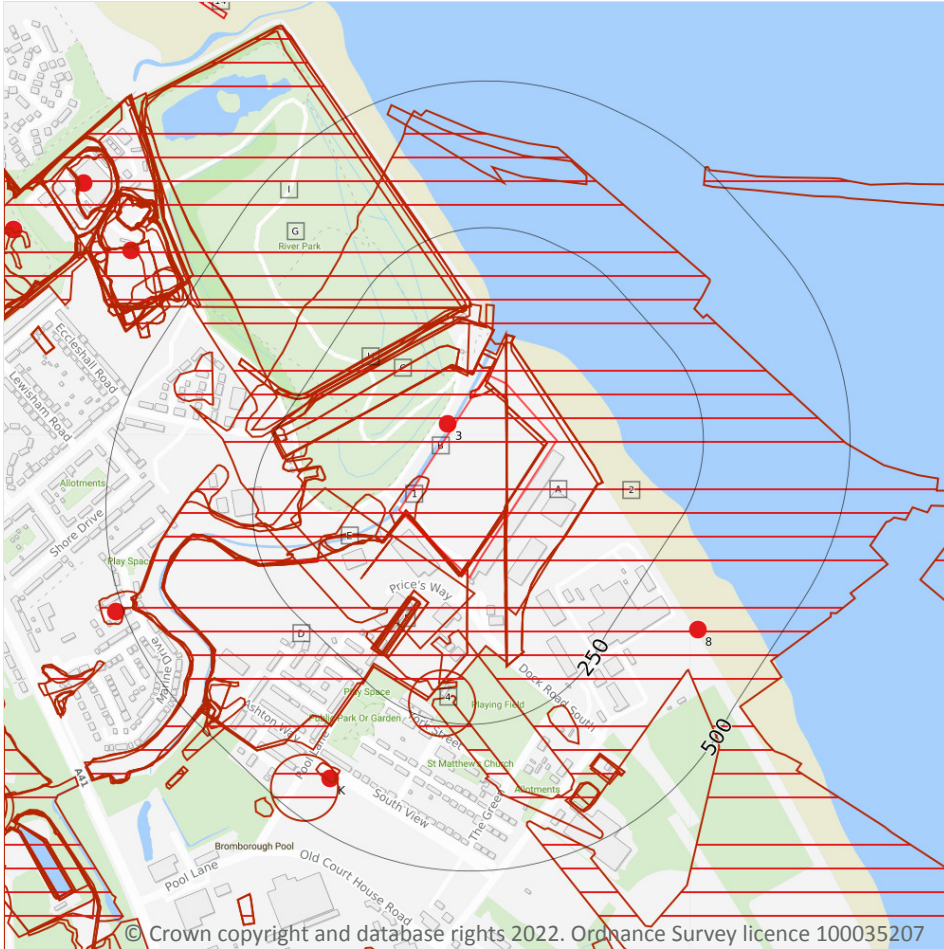
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 154**

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

*This data is sourced from the British Geological Survey.*



## 18 Mining, ground workings and natural cavities



### 18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

*This data is sourced from Stantec UK Ltd.*



## 18.2 BritPits

Records within 500m

3

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining, ground workings and natural cavities map on **page 156**

ID	Location	Details	Description
3	10m NW	Name: Bromborough Dock Address: Bromborough, BIRKENHEAD, Merseyside Commodity: Sand & Gravel Status: Ceased	Type: Sea, river or canal wharf where mineral commodities are unloaded and stored Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
8	376m SE	Name: Mersey Wharf Address: BROMBOROUGH, Cheshire Commodity: Marine Sand & Gravel Status: Inactive	Type: Sea, river or canal wharf where mineral commodities are unloaded and stored Status description: Site which, at date of entry, is not extracting minerals, but which still has a valid planning permission to do so, and can restart at any time. May be considered Mothballed by operator. May be considered to have Active or Dormant planning permission
K	417m SW	Name: Bromborough Pool Address: Bromborough Pool, BEBINGTON, Cheshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

*This data is sourced from the British Geological Survey.*

## 18.3 Surface ground workings

Records within 250m

35

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 156**

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Refuse Heap	1989	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
2	On site	Docks	1925	1:10560
A	On site	Dock	1991	1:10000
A	On site	Dock	1975	1:10000
A	On site	Dock	1965	1:10560
A	On site	Dock	1954	1:10560
B	On site	Pool	1989	1:10000
B	On site	Pool	1974	1:10000
B	On site	Pool	1965	1:10560
B	On site	Pool	1949	1:10560
C	On site	Dock	1989	1:10000
D	On site	Dock	1974	1:10000
D	On site	Dock	1936	1:10560
D	On site	Dock	1936	1:10560
C	21m NW	Dock	1949	1:10560
C	22m NW	Dock	1974	1:10000
C	22m NW	Dock	1965	1:10560
C	27m NW	Dock	1938	1:10560
E	64m SW	Unspecified Heap	1949	1:10560
E	66m SW	Unspecified Ground Workings	1938	1:10560
F	80m SW	Reservoir	1989	1:10000
F	80m SW	Reservoir	1974	1:10000
F	89m SW	Reservoir	1925	1:10560
F	91m SW	Reservoir	1925	1:10560
F	91m SW	Reservoir	1909	1:10560
F	91m SW	Reservoir	1898	1:10560
F	91m SW	Pond	1936	1:10560
G	103m N	Pond	1938	1:10560
G	114m N	Pond	1936	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
H	116m NW	Unspecified Ground Workings	1974	1:10000
H	116m NW	Unspecified Ground Workings	1965	1:10560
H	117m NW	Unspecified Ground Workings	1989	1:10000
I	119m N	Pond	1949	1:10560
I	120m N	Ponds	1956	1:10560
4	163m S	Pool	1938	1:10560

*This is data is sourced from Ordnance Survey/Groundsure.*

## 18.4 Underground workings

**Records within 1000m**

**1**

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

Features are displayed on the Mining, ground workings and natural cavities map on **page 156**

ID	Location	Land Use	Year of mapping	Mapping scale
14	755m NW	Tunnel	1925	1:10560

*This is data is sourced from Ordnance Survey/Groundsure.*

## 18.5 Historical Mineral Planning Areas

**Records within 500m**

**0**

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

*This data is sourced from the British Geological Survey.*

## 18.6 Non-coal mining

**Records within 1000m**

**0**

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).



*This data is sourced from the British Geological Survey.*

## 18.7 Mining cavities

<b>Records within 1000m</b>	<b>0</b>
-----------------------------	----------

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

*This data is sourced from Stantec UK Ltd.*

## 18.8 JPB mining areas

<b>Records on site</b>	<b>0</b>
------------------------	----------

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

*This data is sourced from Johnson Poole and Bloomer.*

## 18.9 Coal mining

<b>Records on site</b>	<b>0</b>
------------------------	----------

Areas which could be affected by past, current or future coal mining.

*This data is sourced from the Coal Authority.*

## 18.10 Brine areas

<b>Records on site</b>	<b>0</b>
------------------------	----------

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

*This data is sourced from the Cheshire Brine Subsidence Compensation Board.*

## 18.11 Gypsum areas

<b>Records on site</b>	<b>0</b>
------------------------	----------

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*



## 18.12 Tin mining

Records on site

0

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Groundsure.*

## 18.13 Clay mining

Records on site

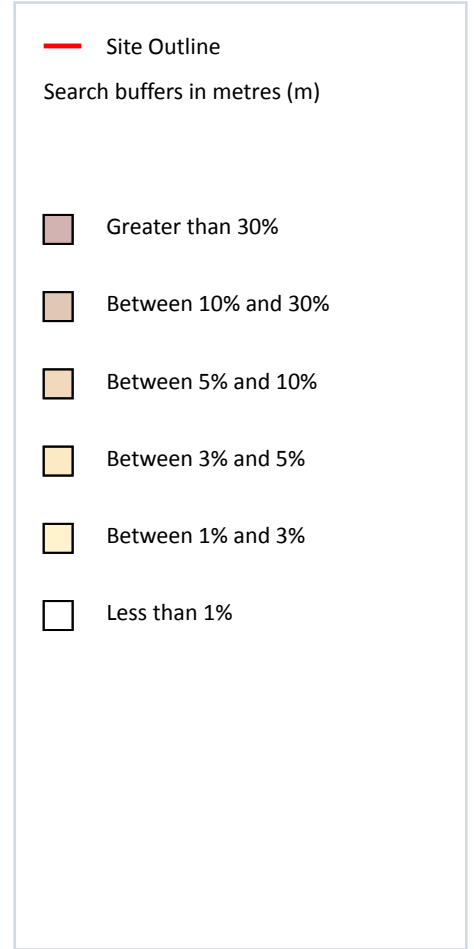
0

Generalised areas that may be affected by kaolin and ball clay extraction.

*This data is sourced from the Kaolin and Ball Clay Association (UK).*



## 19 Radon



### 19.1 Radon

#### Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 162**

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None**

*This data is sourced from the British Geological Survey and Public Health England.*



## 20 Soil chemistry

### 20.1 BGS Estimated Background Soil Chemistry

Records within 50m

3

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km<sup>2</sup>. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km<sup>2</sup>; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
37m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

*This data is sourced from the British Geological Survey.*

### 20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km<sup>2</sup>).

*This data is sourced from the British Geological Survey.*

### 20.3 BGS Measured Urban Soil Chemistry

Records within 50m

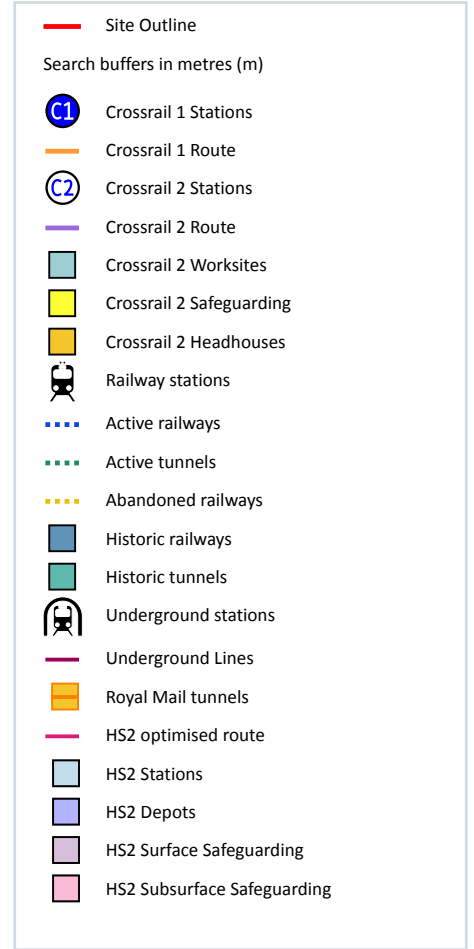
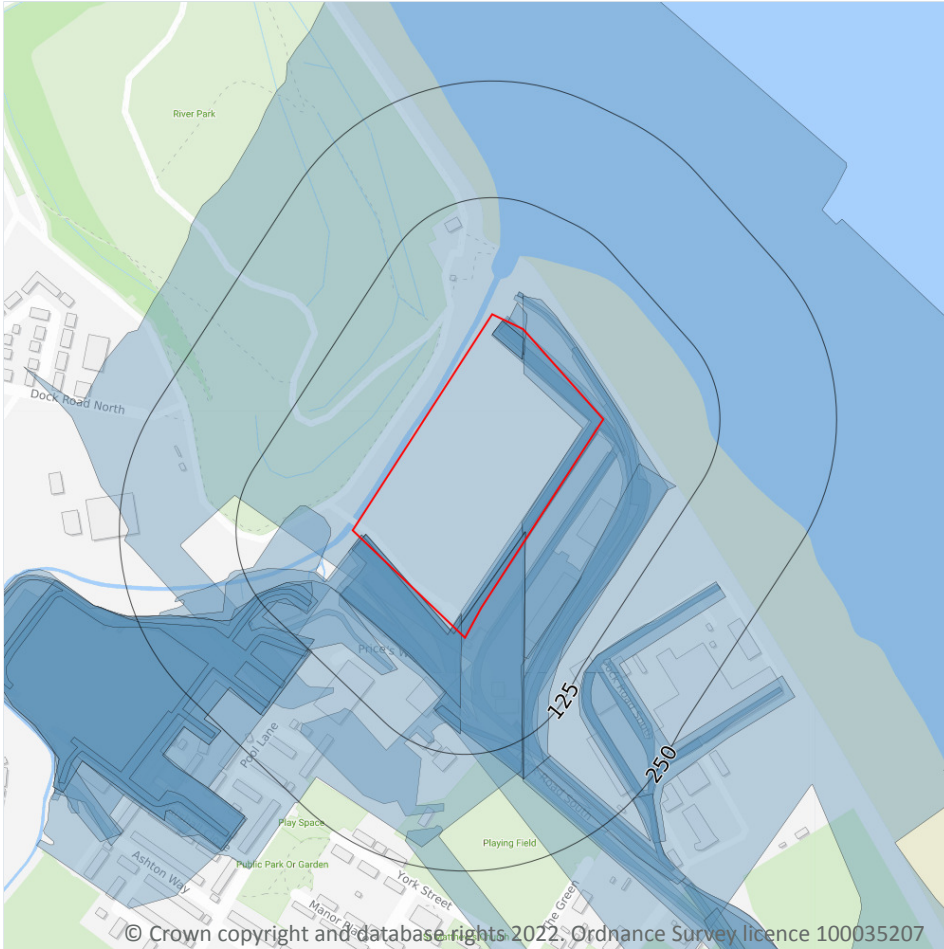
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The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km<sup>2</sup>.

*This data is sourced from the British Geological Survey.*



## 21 Railway infrastructure and projects



### 21.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

*This data is sourced from publicly available information by Groundsure.*

### 21.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.



*This data is sourced from publicly available information by Groundsure.*

### 21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

### 21.4 Historical railway and tunnel features

Records within 250m

39

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on **page 164**

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1955	1250
On site	Railway Sidings	1972	1250
On site	Railway Sidings	1955	2500
On site	Railway Sidings	1984	1250
On site	Tramway Sidings	1936	2500
On site	Railway Sidings	1975	-
On site	Railway Sidings	1936	2500
On site	Railway Sidings	1938	10560
On site	Railway Sidings	1925	10560
On site	Railway Sidings	1954	10560
On site	Railway Sidings	1974	10000
On site	Railway Sidings	1965	10560
On site	Railway Sidings	1949	10560
On site	Railway Sidings	1936	10560
12m NE	Railway Sidings	1955	1250
23m SE	Railway Sidings	1955	1250
29m NE	Railway Sidings	1955	2500



Location	Land Use	Year of mapping	Mapping scale
30m NE	Railway Sidings	1955	1250
30m SW	Railway Sidings	1955	1250
30m SW	Railway Sidings	1972	1250
58m SE	Railway Sidings	1965	10560
58m SW	Railway Sidings	1909	10560
70m SW	Railway Sidings	1938	10560
72m SW	Tramway Sidings	1912	2500
75m S	Railway Sidings	1955	1250
75m SE	Railway Sidings	1972	1250
77m S	Railway Sidings	1936	10560
80m SW	Railway Sidings	1925	10560
86m SW	Railway Sidings	1925	10560
88m SW	Tramway Sidings	1927	2500
88m SW	Tramway Sidings	1936	2500
106m SE	Railway Sidings	1955	1250
123m S	Railway Sidings	1955	1250
130m SE	Railway Sidings	1965	10560
131m SE	Railway Sidings	1955	1250
132m SE	Railway Sidings	1955	1250
156m SE	Railway Sidings	1975	10000
212m SW	Railway Sidings	1955	2500
215m SW	Railway Sidings	1955	1250

*This data is sourced from Ordnance Survey/Groundsure.*

## 21.5 Royal Mail tunnels

**Records within 250m**

**0**

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth



to track level.

*This data is sourced from Groundsure/the Postal Museum.*

## 21.6 Historical railways

**Records within 250m**

**0**

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

*This data is sourced from OpenStreetMap.*

## 21.7 Railways

**Records within 250m**

**0**

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

*This data is sourced from Ordnance Survey and OpenStreetMap.*

## 21.8 Crossrail 1

**Records within 500m**

**0**

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

*This data is sourced from publicly available information by Groundsure.*

## 21.9 Crossrail 2

**Records within 500m**

**0**

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

*This data is sourced from publicly available information by Groundsure.*

## 21.10 HS2

**Records within 500m**

**0**

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.



*This data is sourced from HS2 Ltd.*



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## Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

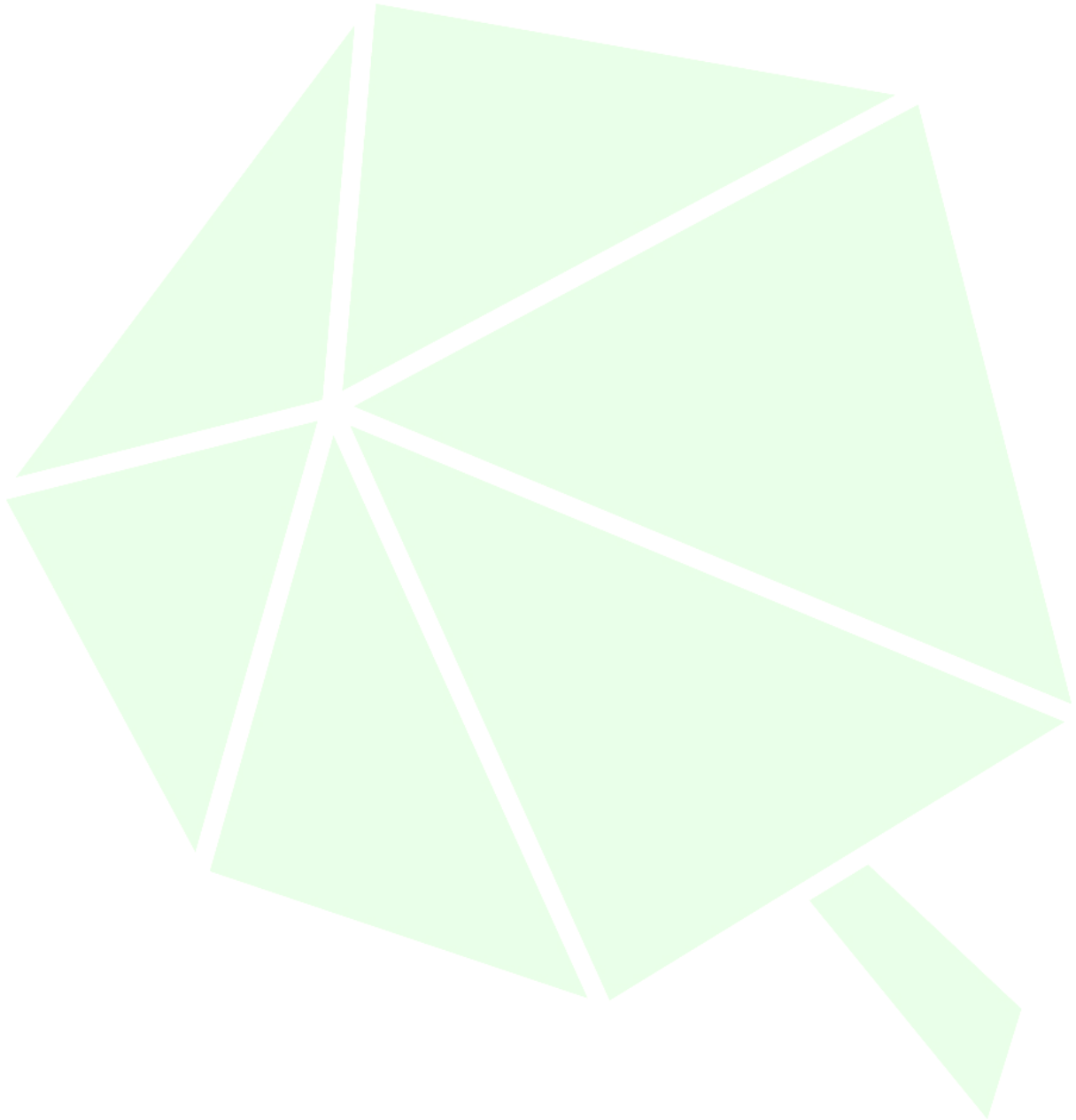
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# App B



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**Grid Ref:** 334952, 384710

**Map Name:** County Series

**Map date:** 1850

**Scale:** 1:10,560

**Printed at:** 1:10,560



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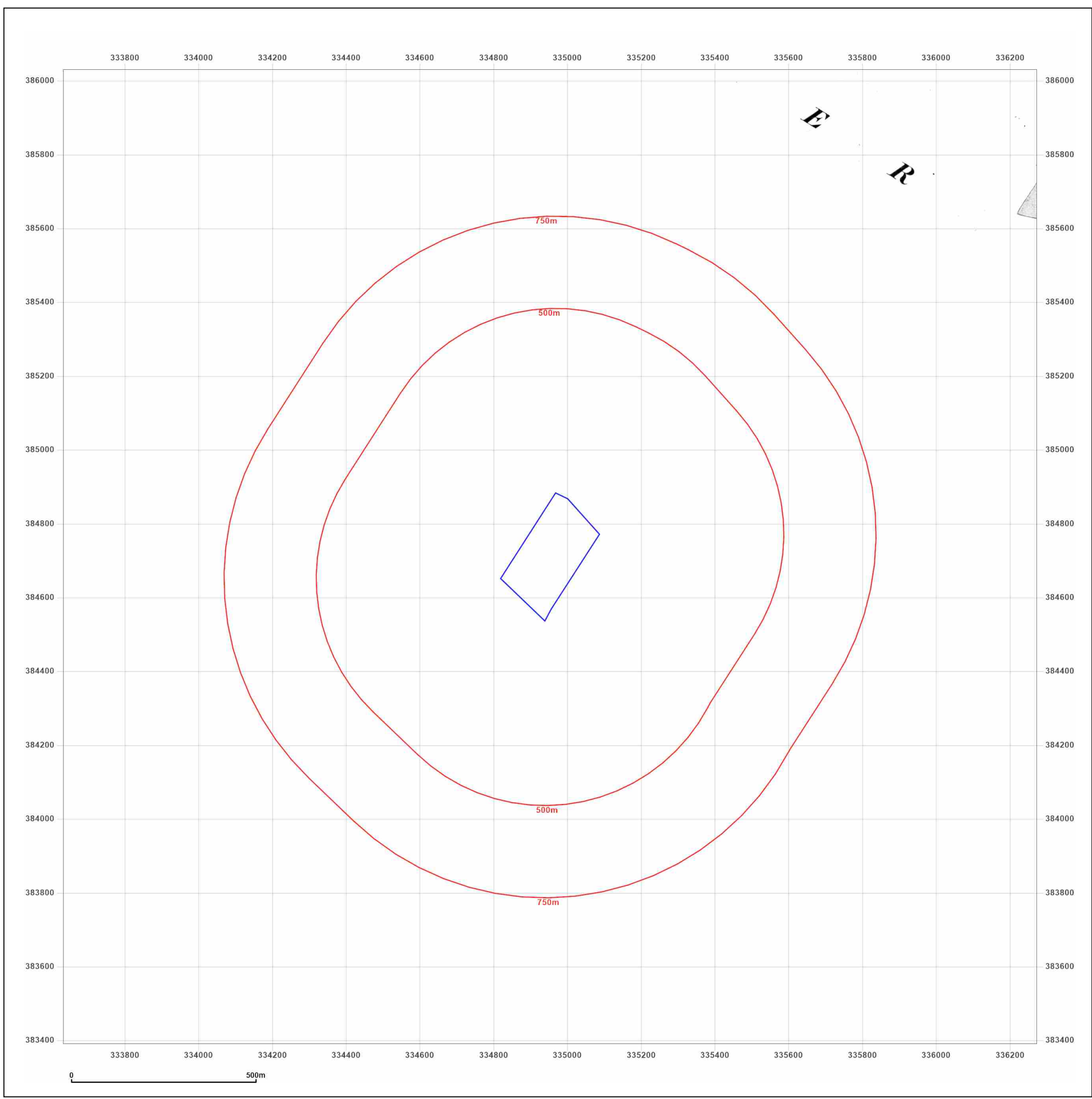


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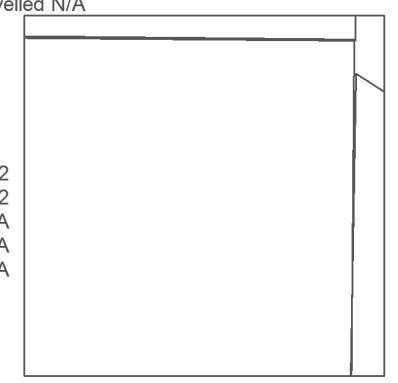
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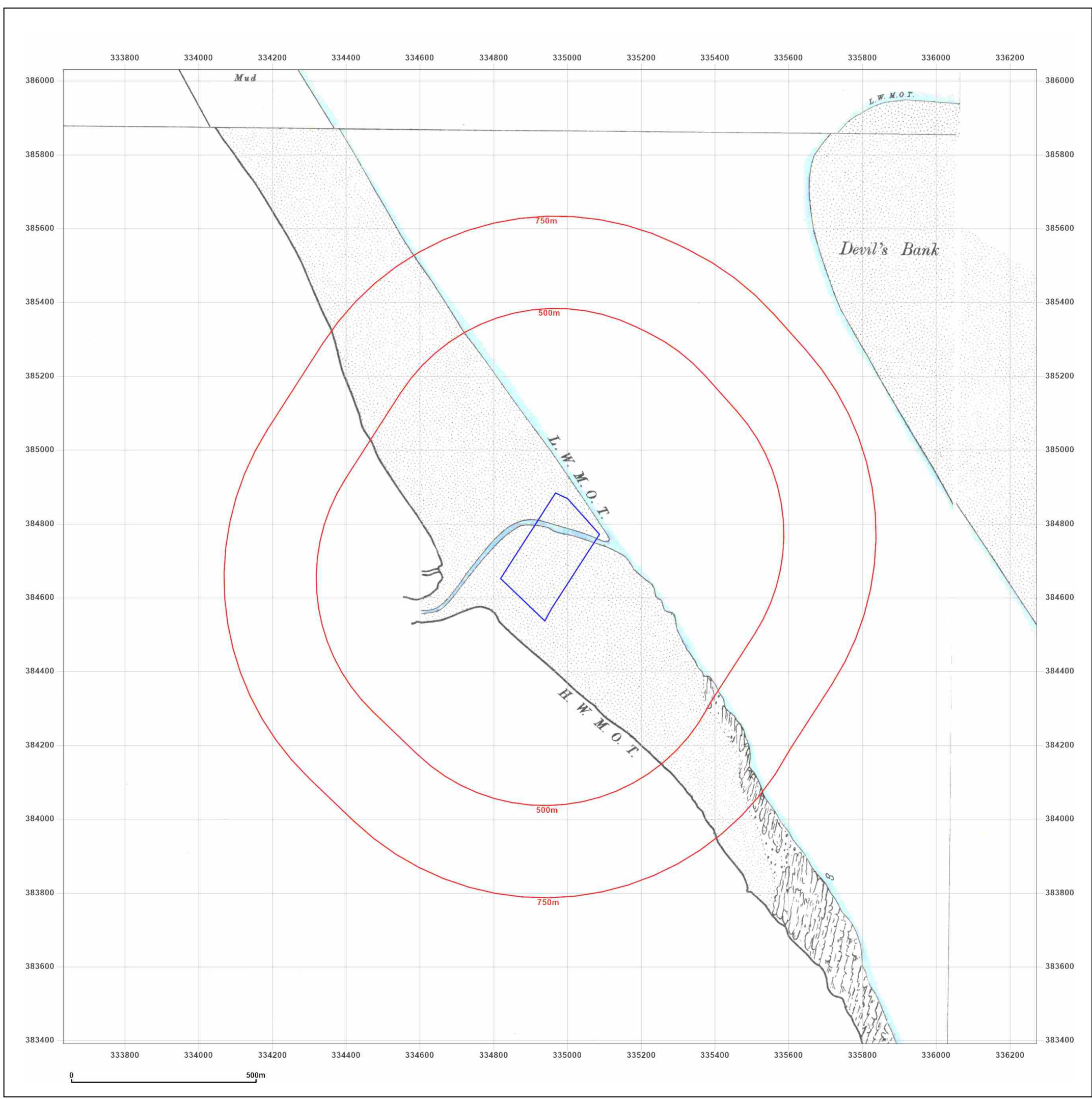


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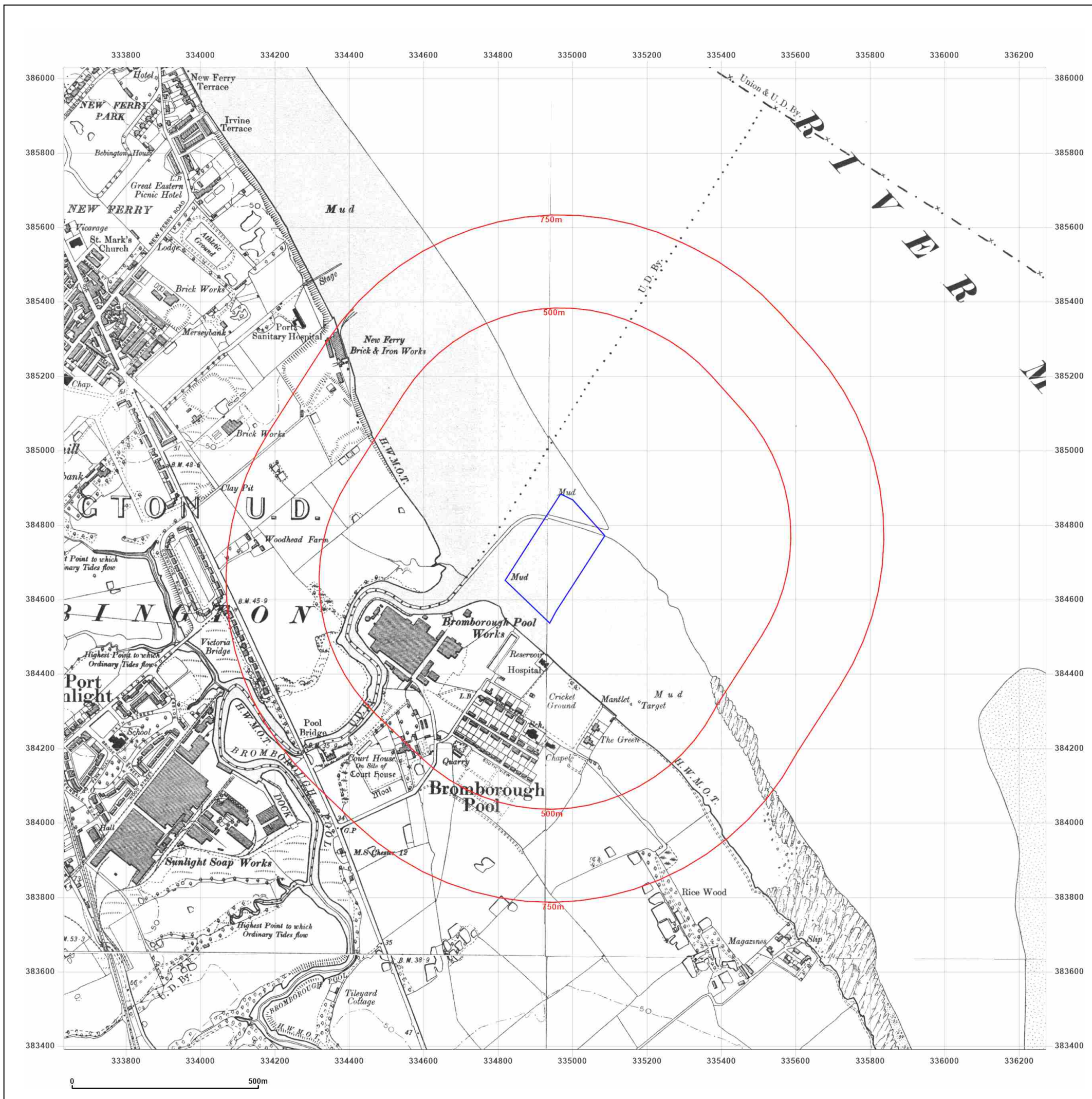


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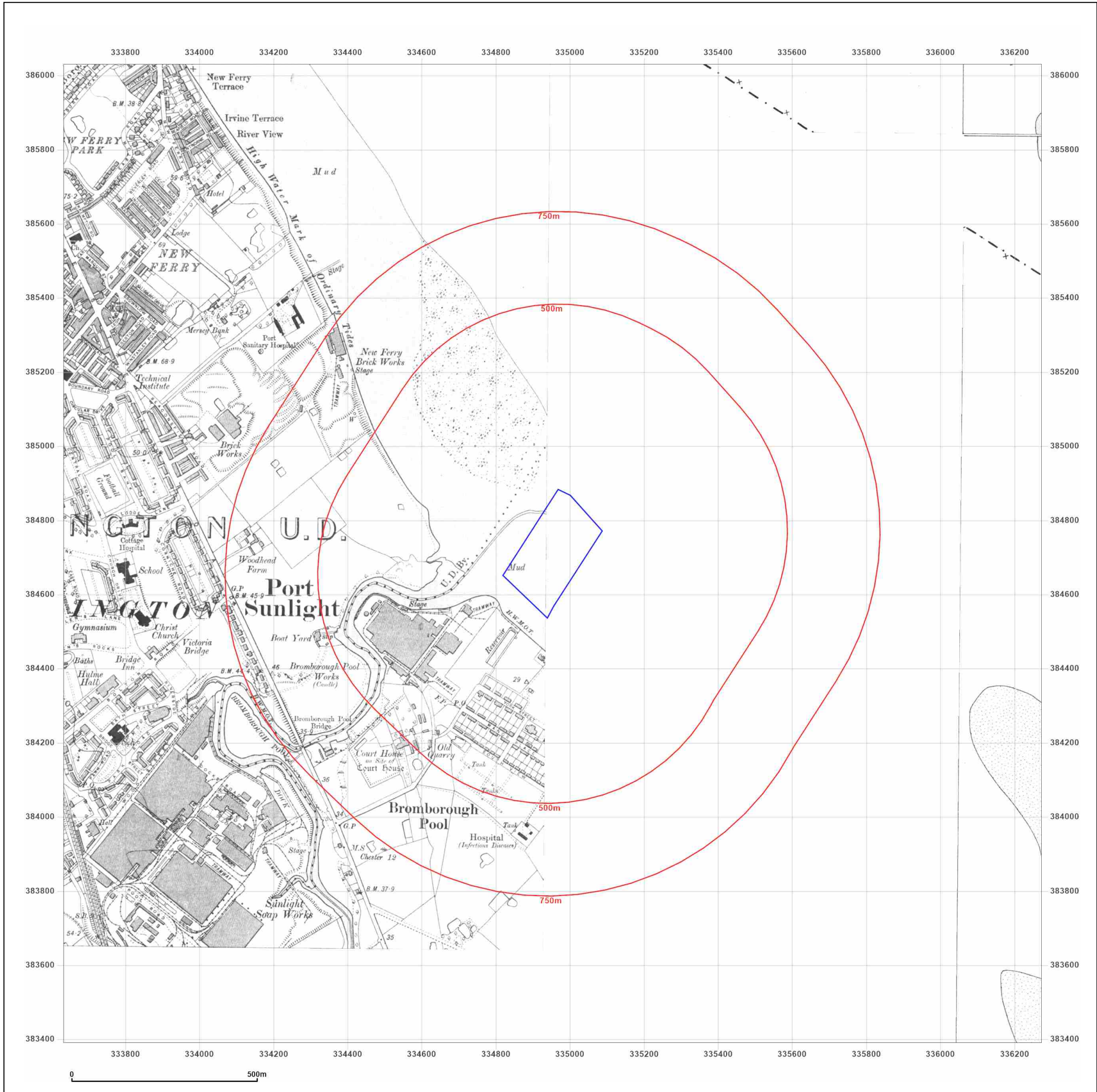


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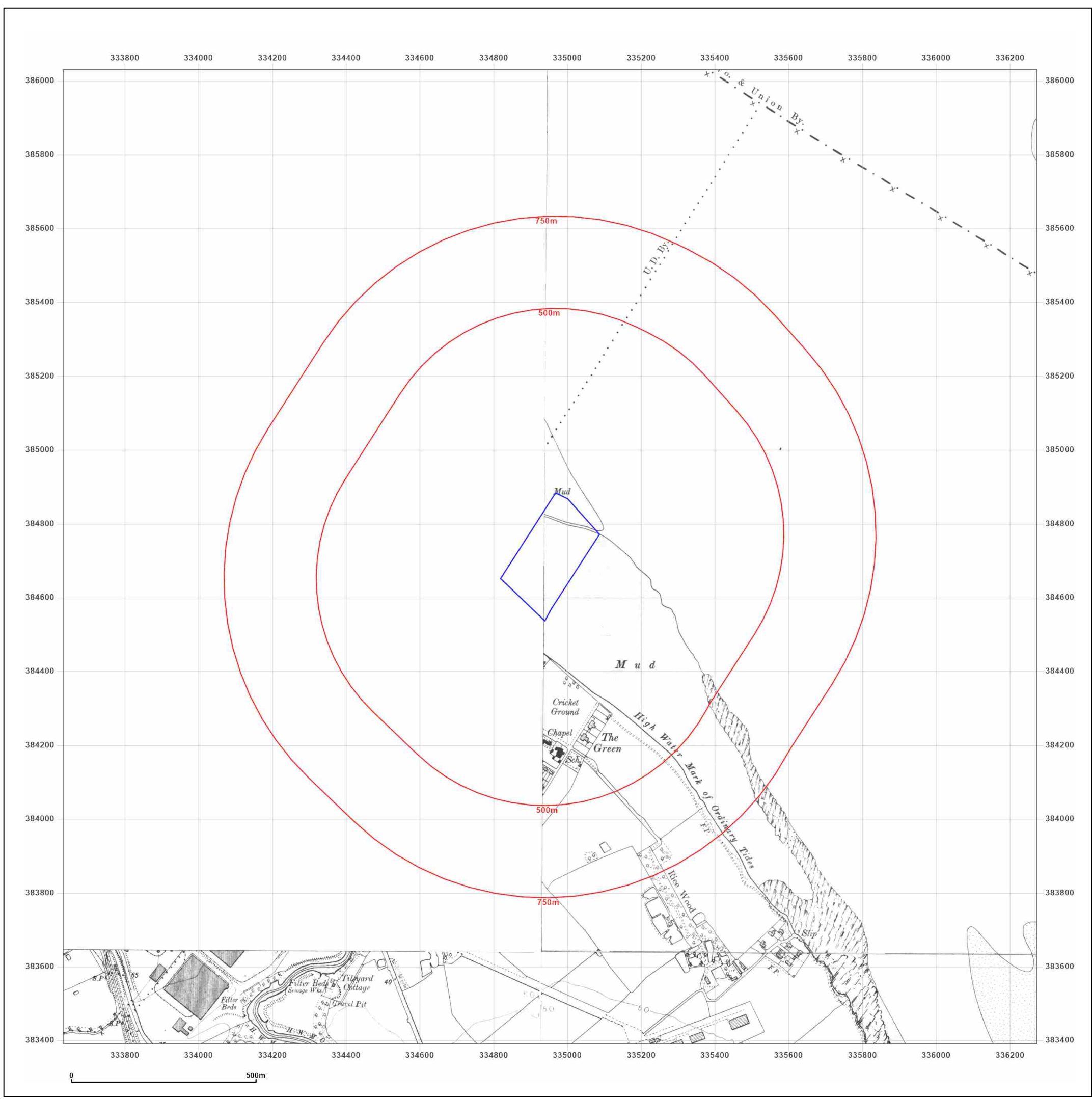


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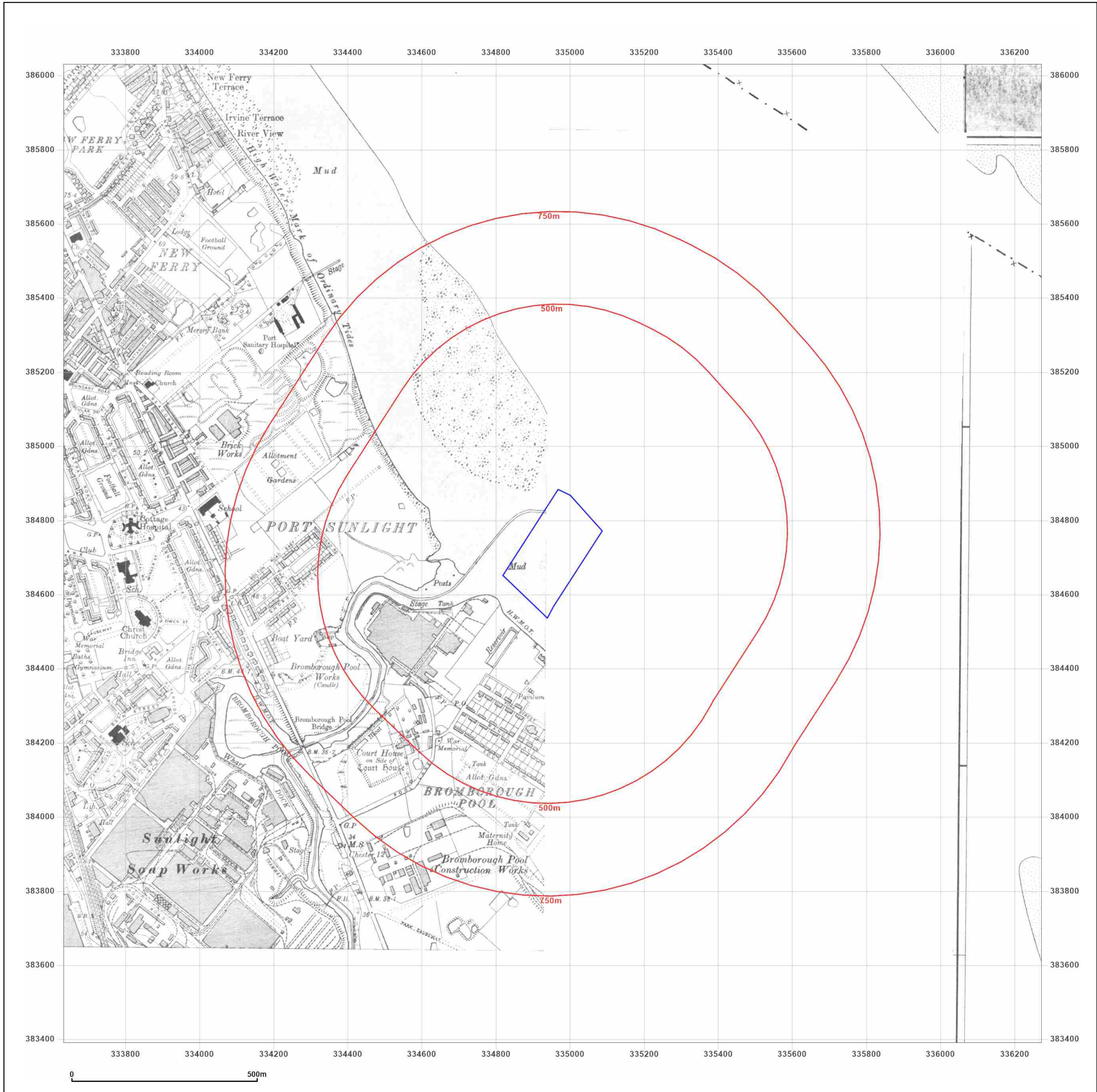


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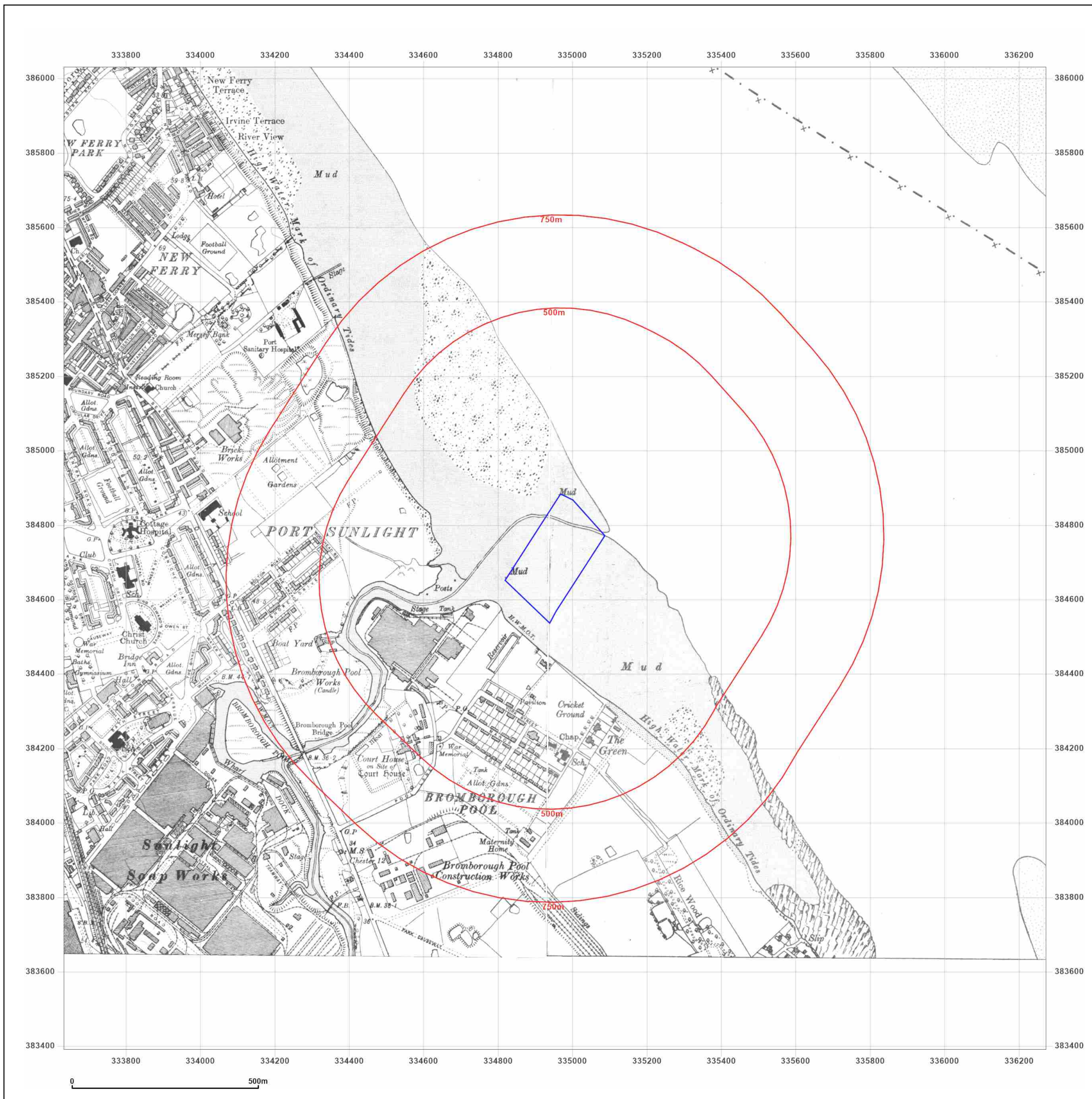
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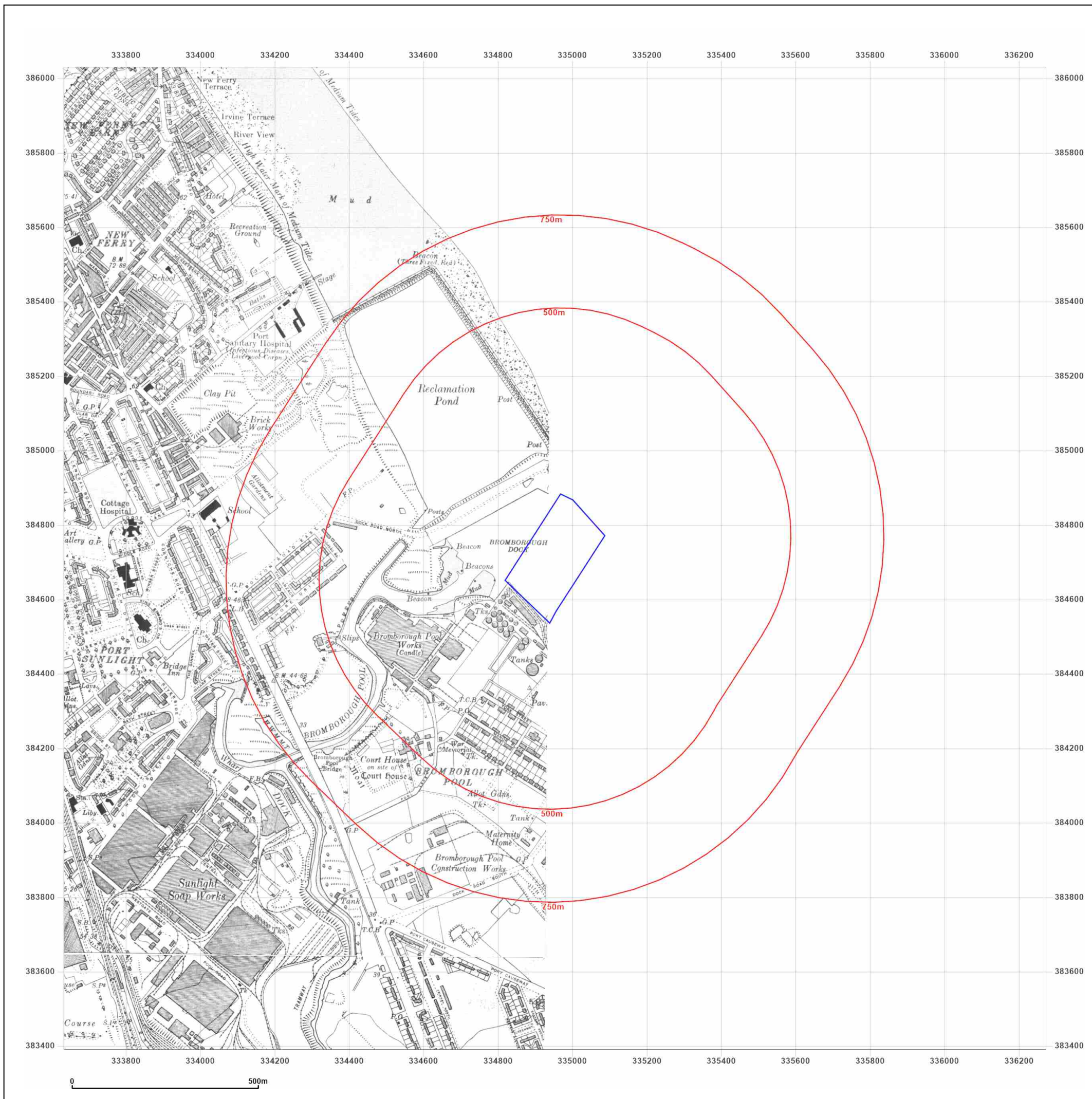


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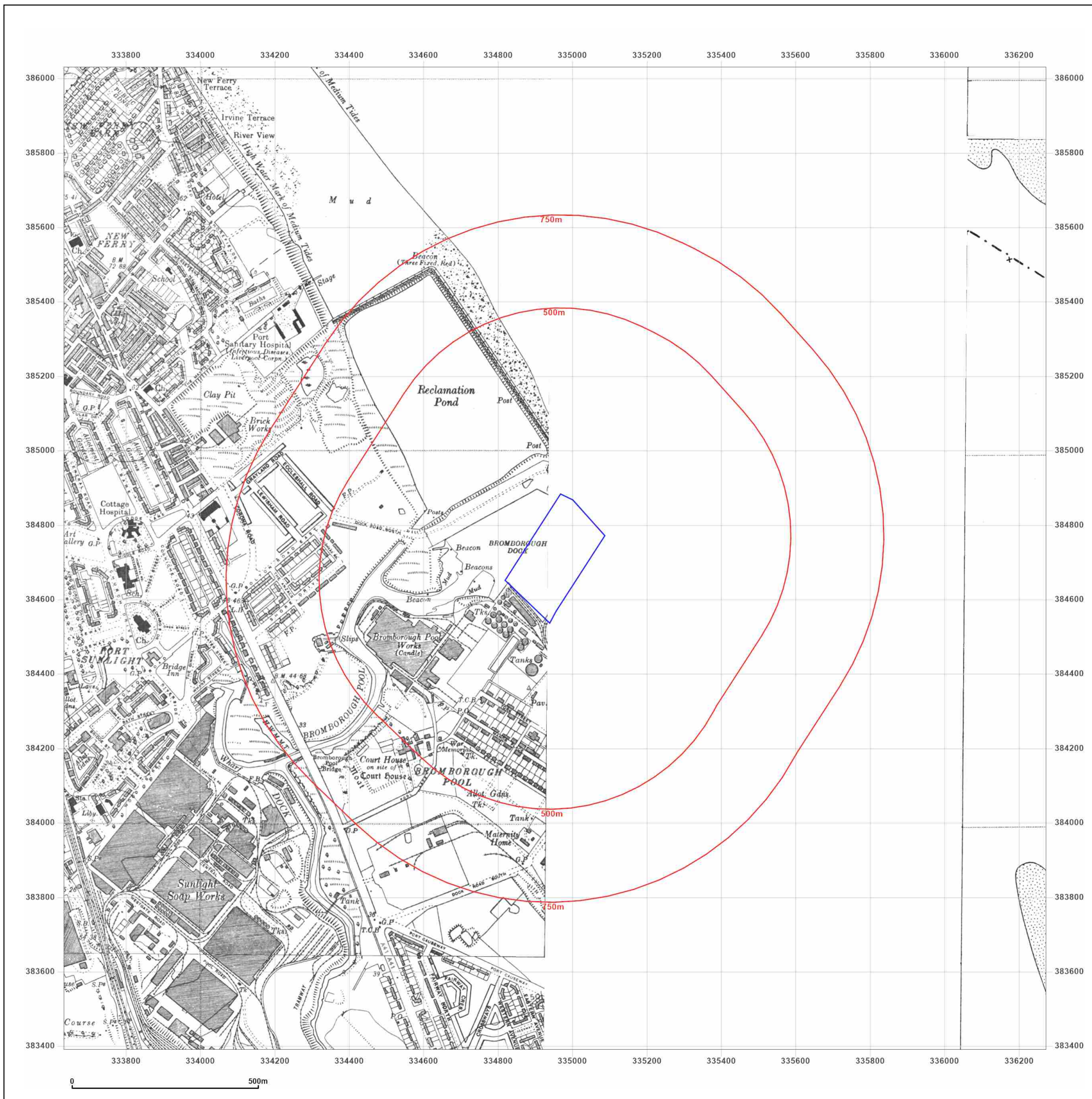


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**Site Details:**

334947 , 384720

**Client Ref:** 016\_1\_Bromborough  
**Report Ref:** GS-9077522  
**Grid Ref:** 334952, 384710

**Map Name:** County Series

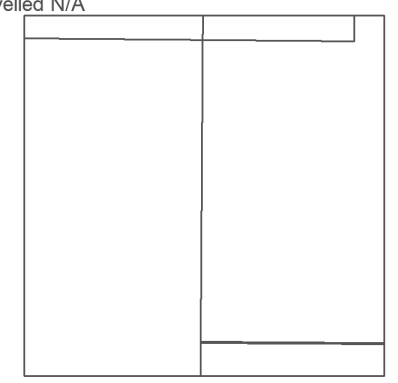
**Map date:** 1938

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1848  
 Revised 1938  
 Edition N/A  
 Copyright N/A  
 Levelled N/A



Surveyed 1871  
 Revised 1938  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1872  
 Revised 1938  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

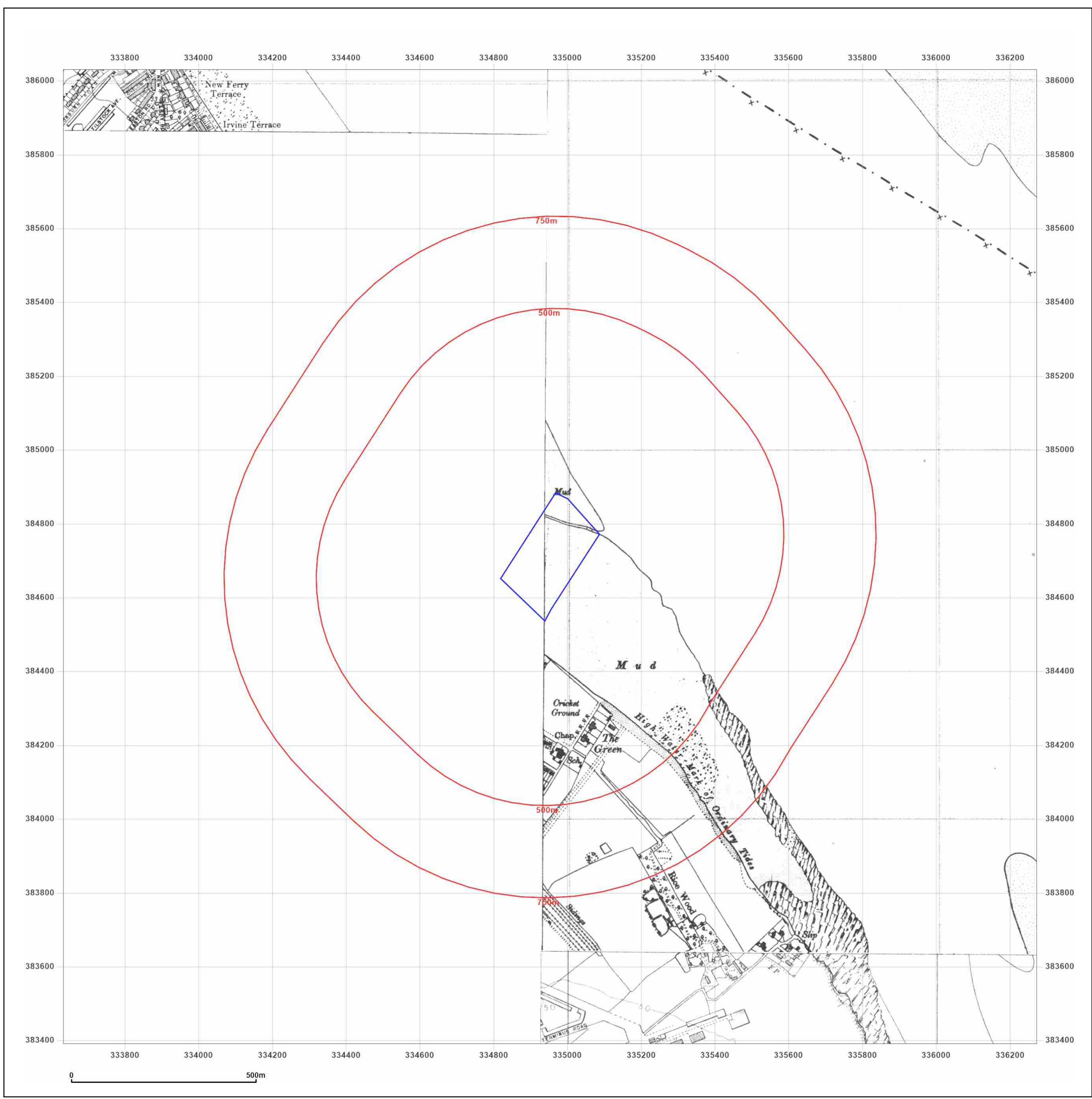


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**Site Details:**

334947 , 384720

**Client Ref:** 016\_1\_Bromborough  
**Report Ref:** GS-9077522  
**Grid Ref:** 334952, 384710

**Map Name:** Provisional

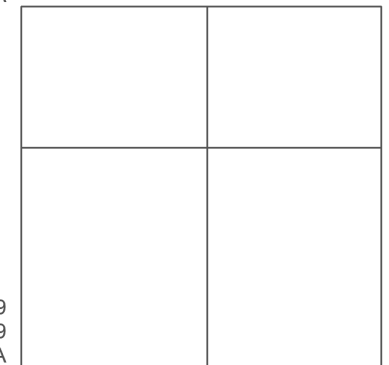
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**Scale:** 1:10,560

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Surveyed N/A  
 Revised 1953  
 Edition 1954  
 Copyright N/A  
 Levelled N/A



Surveyed 1949  
 Revised 1949  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed N/A  
 Revised 1953  
 Edition N/A  
 Copyright 1954  
 Levelled N/A

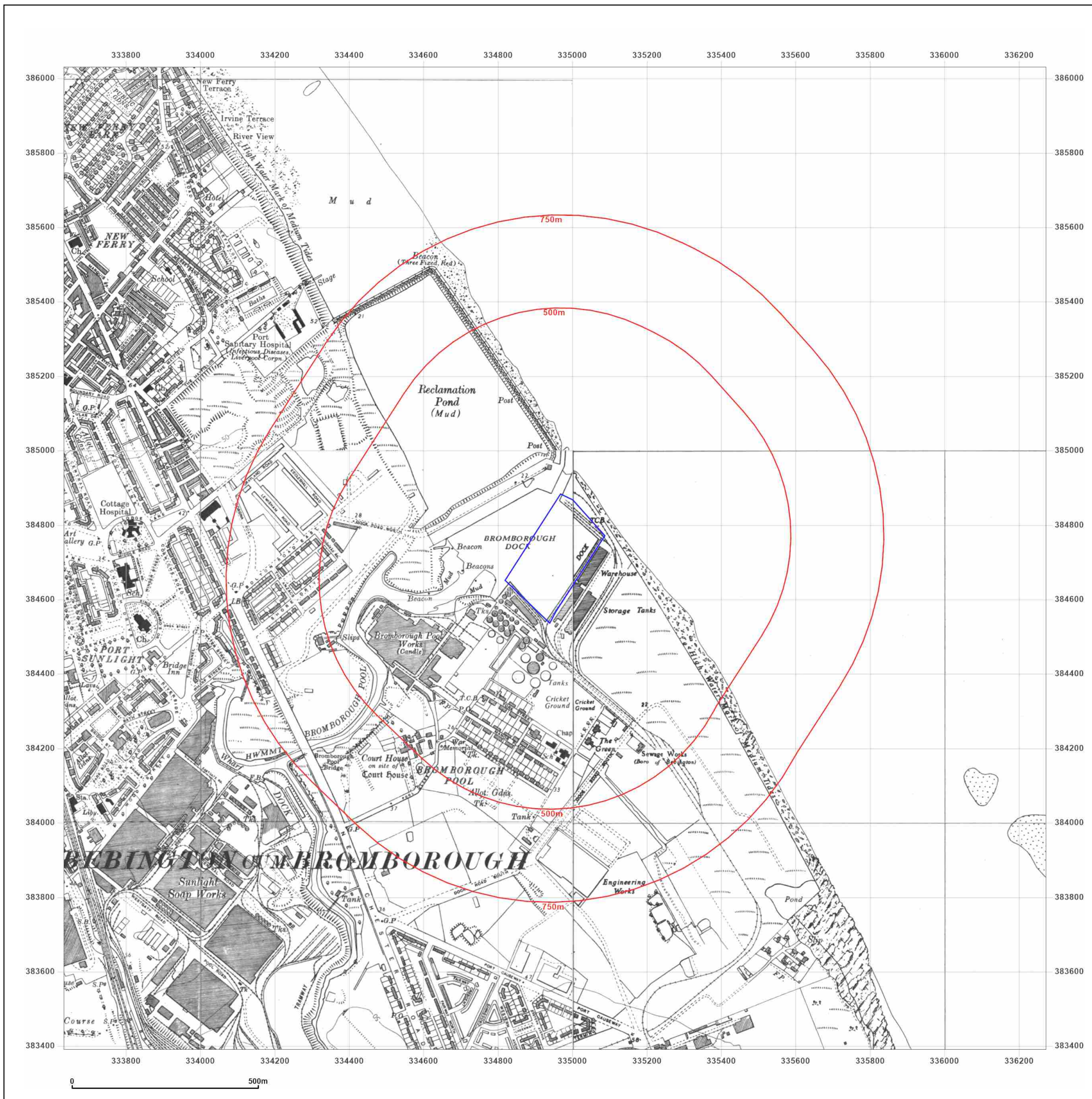


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**Site Details:**

334947 , 384720

**Client Ref:** 016\_1\_Bromborough  
**Report Ref:** GS-9077522  
**Grid Ref:** 334952, 384710

**Map Name:** Provisional

**Map date:** 1956

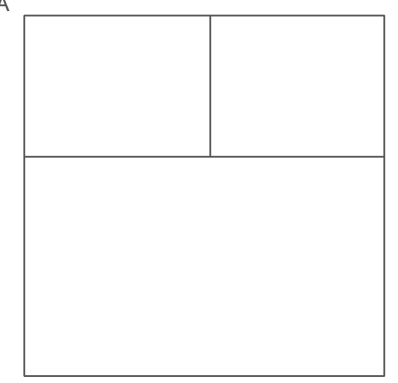
**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1956  
 Revised 1956  
 Edition N/A  
 Copyright N/A  
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 Revised 1956  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

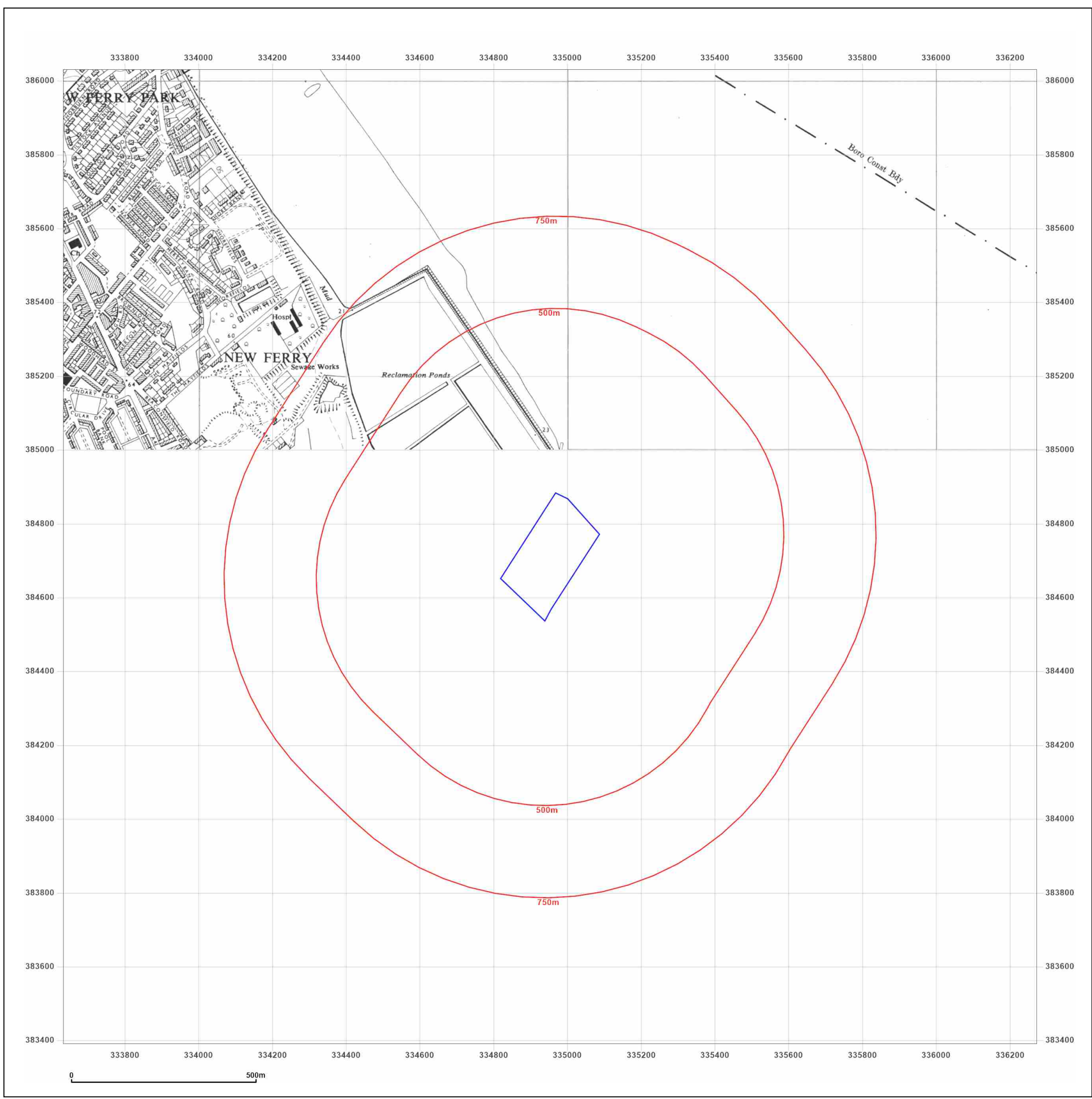


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**Client Ref:** 016\_1\_Bromborough  
**Report Ref:** GS-9077522  
**Grid Ref:** 334952, 384710

**Map Name:** Provisional

**Map date:** 1965-1967

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1966  
 Revised 1966  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1965  
 Revised 1965  
 Edition N/A  
 Copyright 1967  
 Levelled N/A

Surveyed 1965  
 Revised 1965  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1965  
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 Edition N/A  
 Copyright N/A  
 Levelled N/A

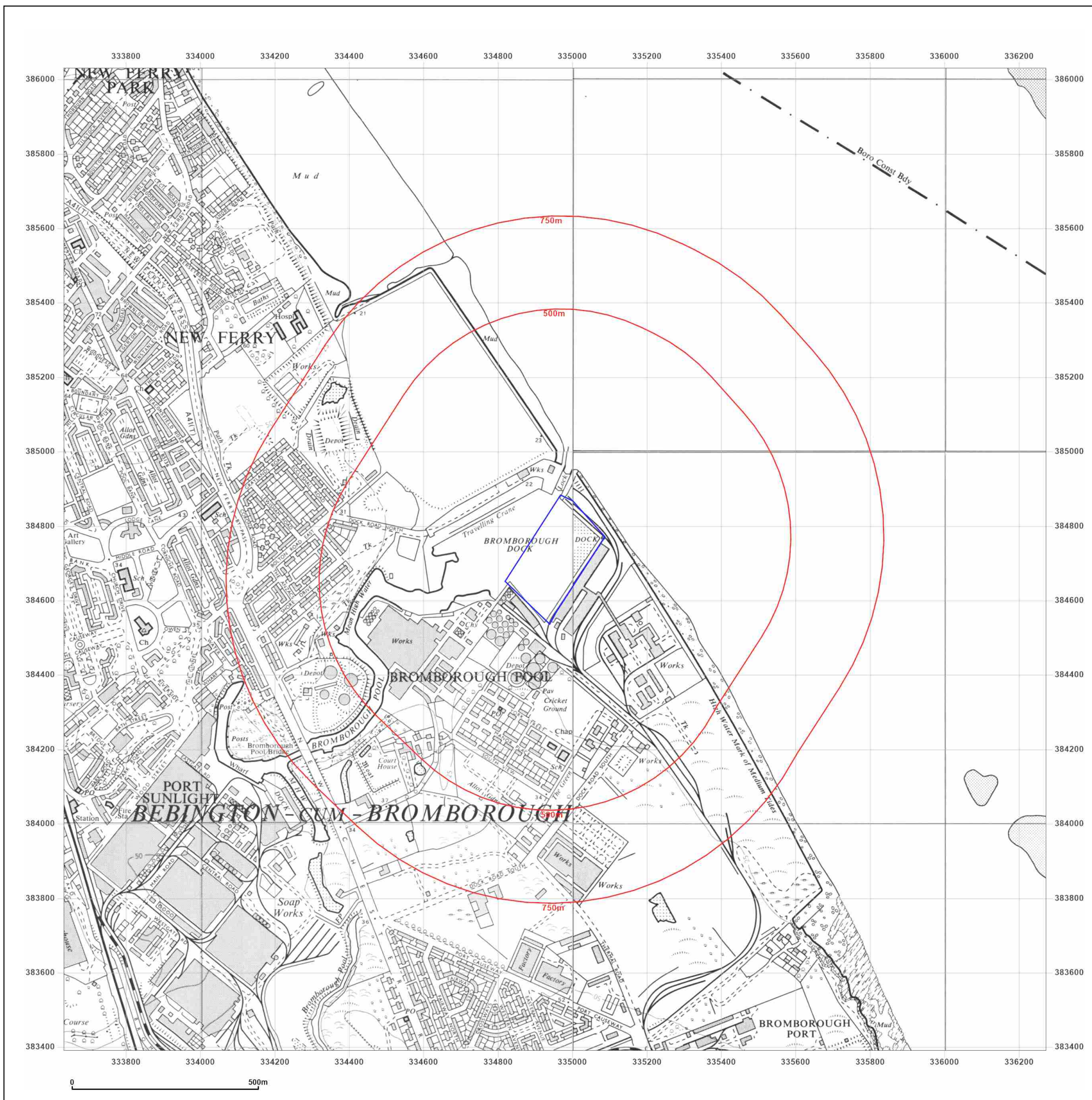


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**Site Details:**

334947 , 384720

**Client Ref:** 016\_1\_Bromborough  
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**Grid Ref:** 334952, 384710

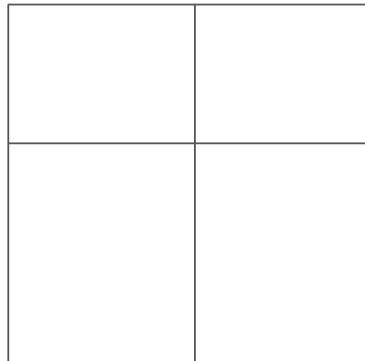
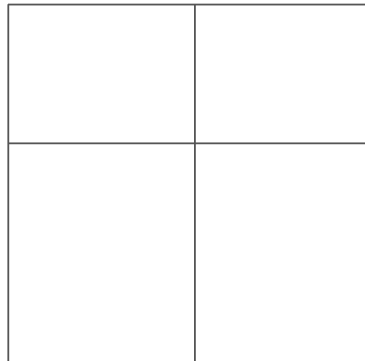
**Map Name:** National Grid

**Map date:** 1976-1978

**Scale:** 1:10,000

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<p>Surveyed 1974 Revised 1976 Edition N/A Copyright 1976 Levelled 1964</p>		<p>Surveyed 1975 Revised 1978 Edition N/A Copyright 1978 Levelled 1953</p>
<p>Surveyed 1974 Revised 1976 Edition N/A Copyright 1976 Levelled 1964</p>		<p>Surveyed 1974 Revised 1976 Edition N/A Copyright 1976 Levelled 1964</p>

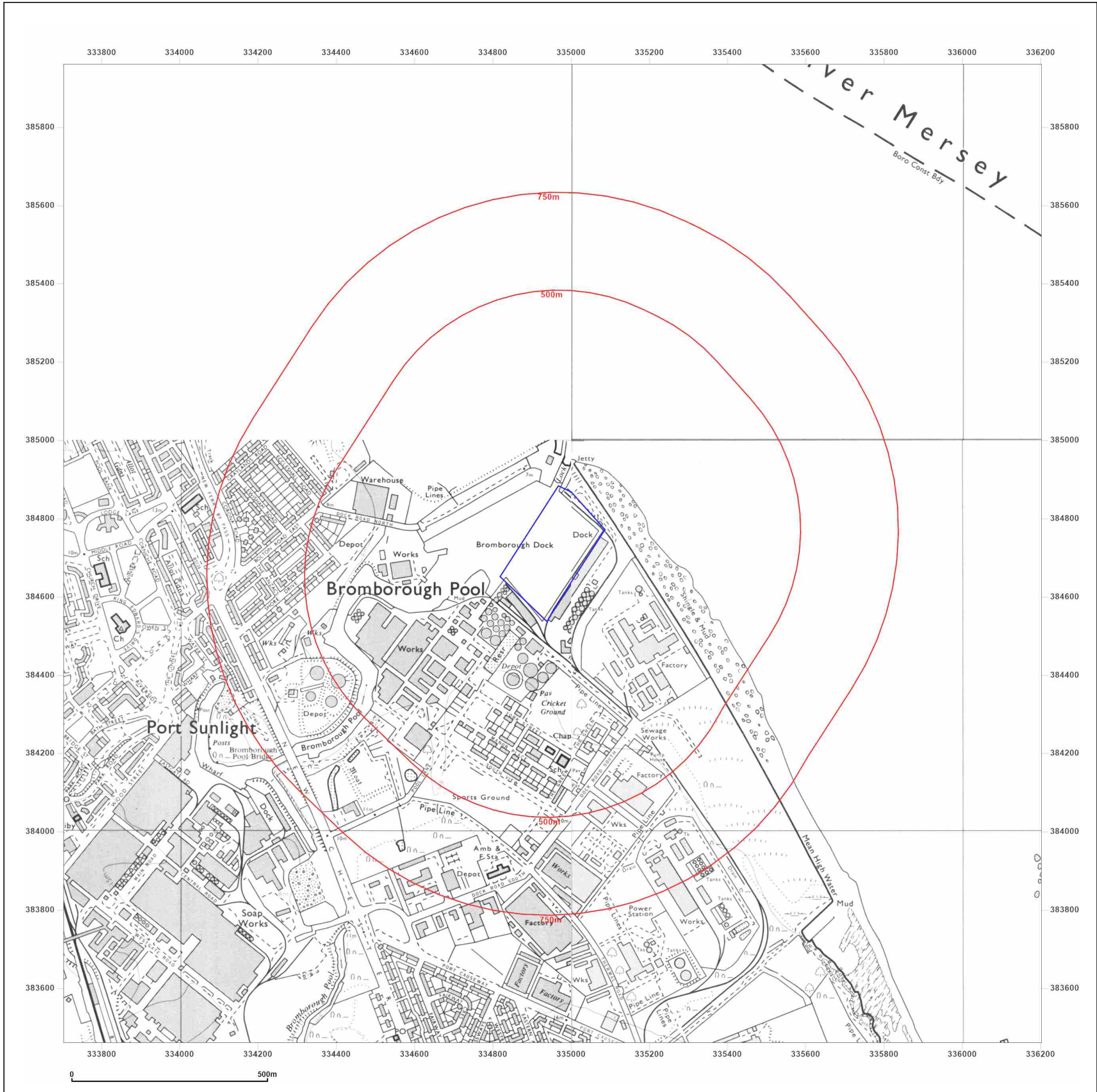


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**Site Details:**

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**Map Name:** National Grid

**Map date:** 1982-1987

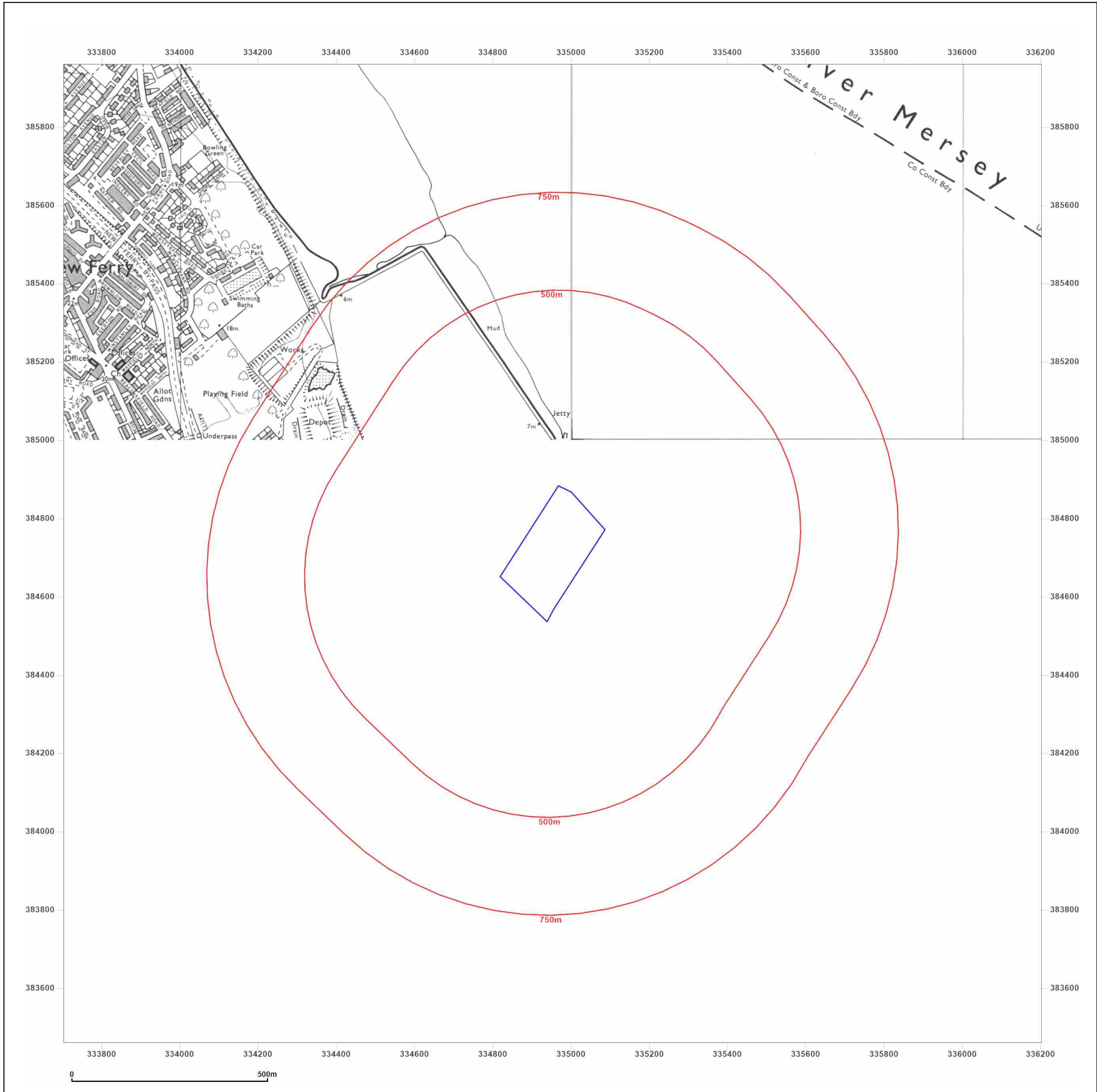
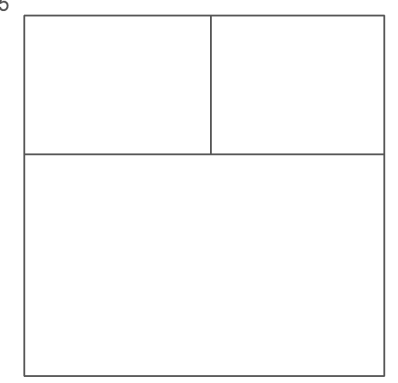
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**Client Ref:** 016\_1\_Bromborough  
**Report Ref:** GS-9077522  
**Grid Ref:** 334952, 384710

**Map Name:** National Grid

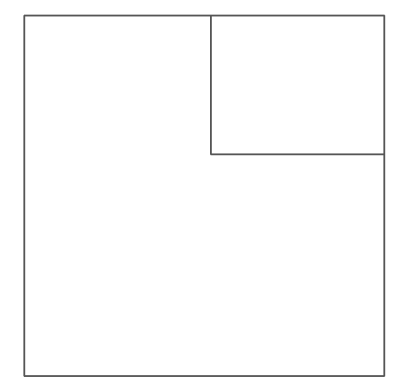
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**Scale:** 1:10,000

**Printed at:** 1:10,000



Surveyed 1985  
 Revised 1988  
 Edition N/A  
 Copyright 1989  
 Levelled N/A

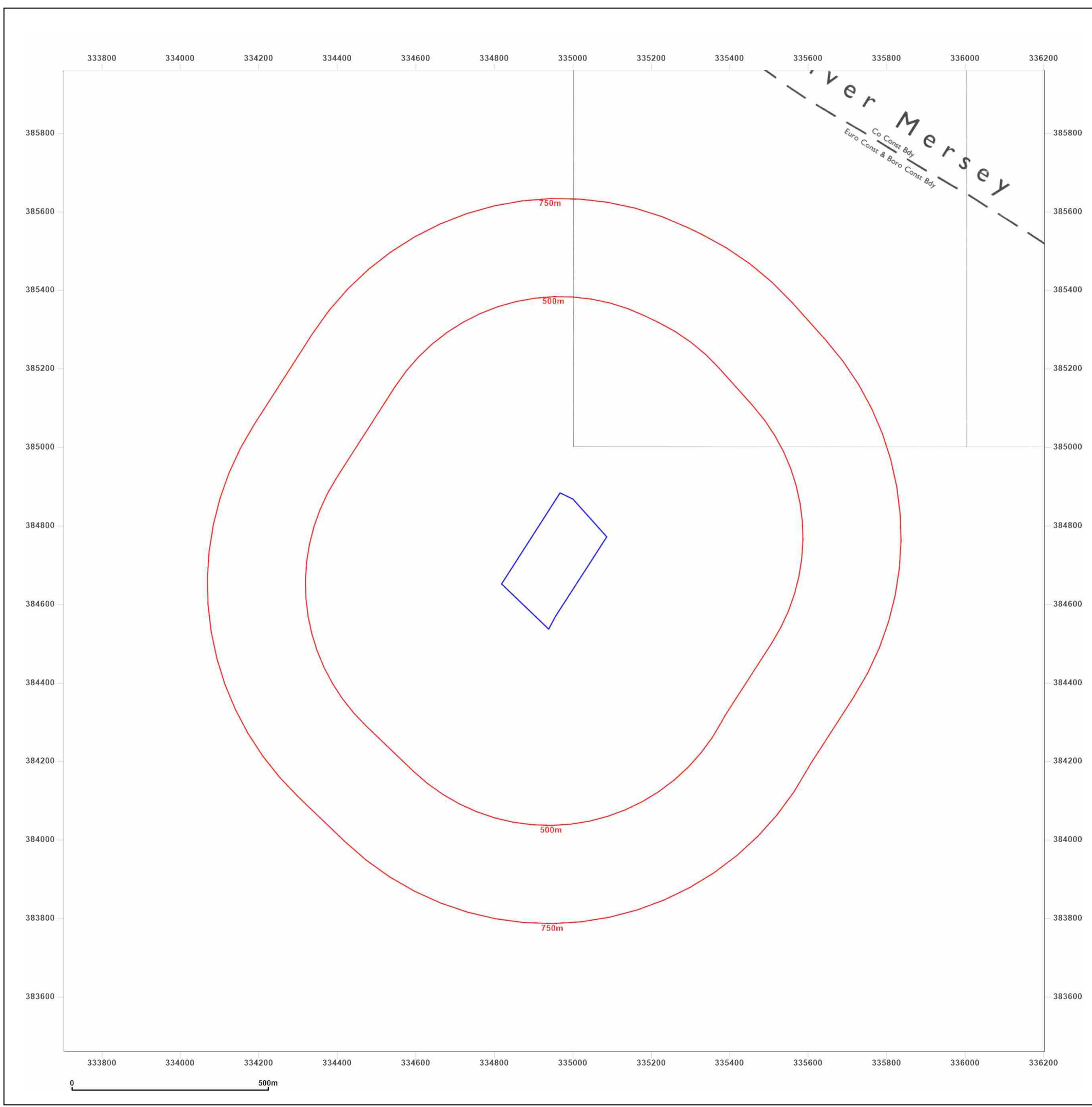


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**Site Details:**

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**Report Ref:** GS-9077522  
**Grid Ref:** 334952, 384710

**Map Name:** National Grid

**Map date:** 1989-1991

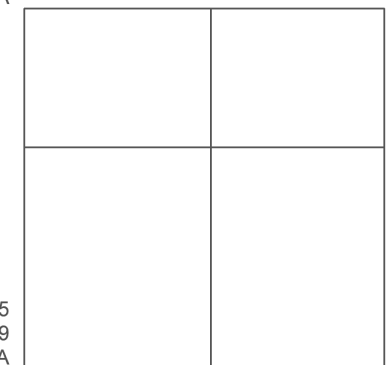
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Surveyed 1989  
 Revised 1991  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1985  
 Revised 1988  
 Edition N/A  
 Copyright 1989  
 Levelled N/A



Surveyed 1985  
 Revised 1989  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1989  
 Revised 1991  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

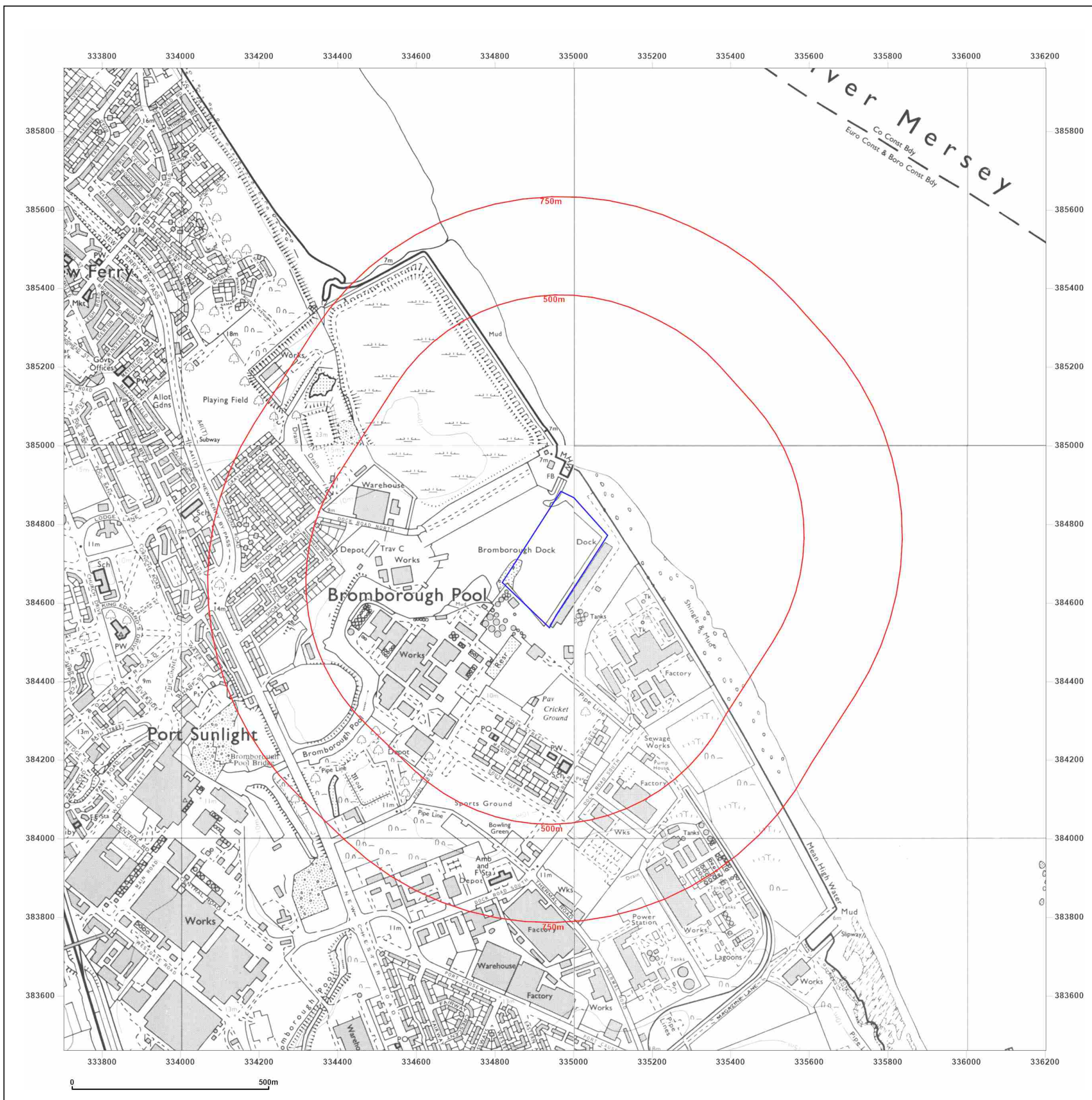


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**Client Ref:** 016\_1\_Bromborough  
**Report Ref:** GS-9077522  
**Grid Ref:** 334952, 384710

**Map Name:** National Grid

**Map date:** 2010

**Scale:** 1:10,000

**Printed at:** 1:10,000

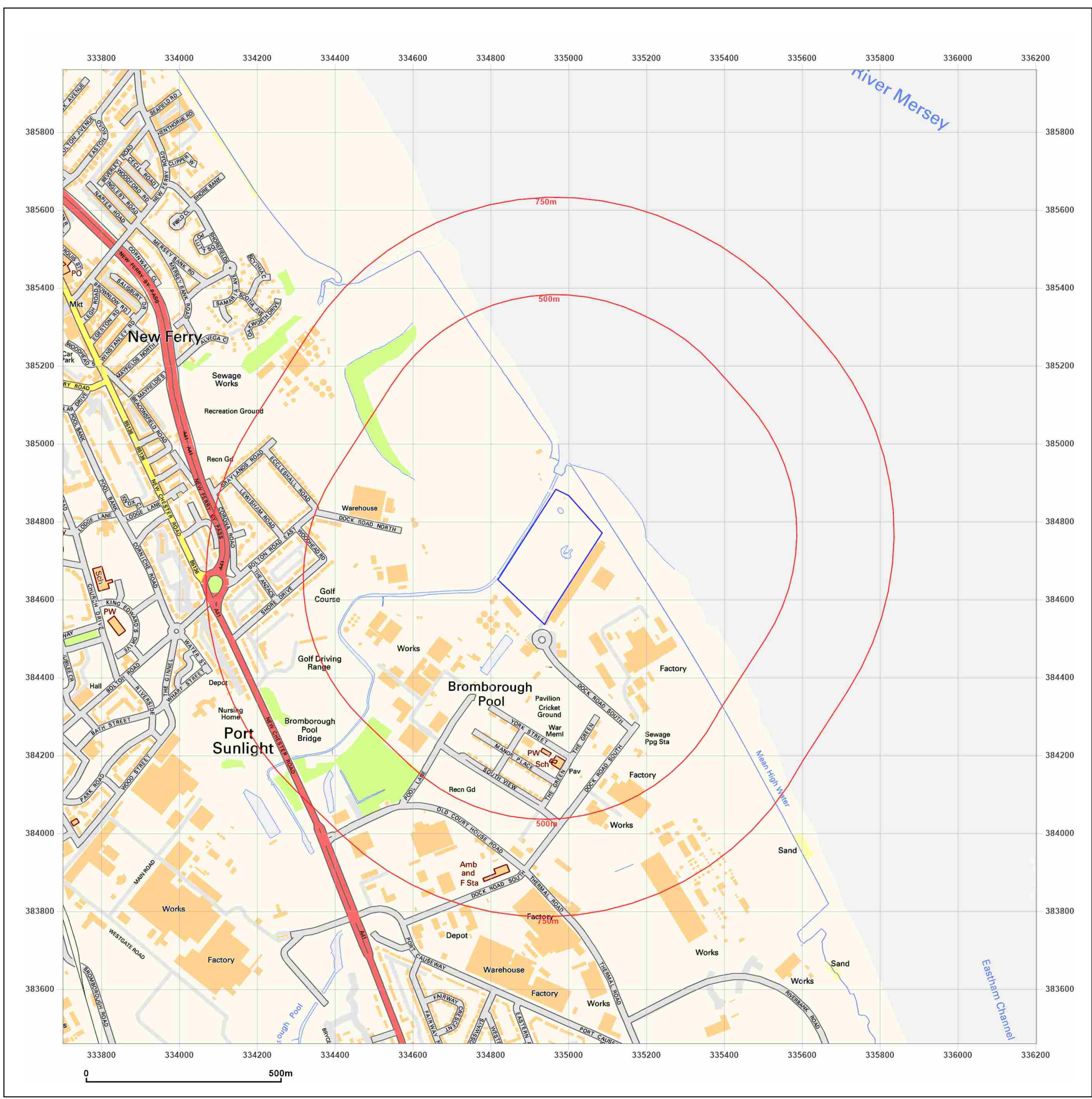


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**Site Details:**

334947 , 384720

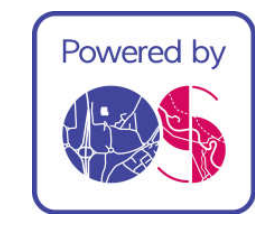
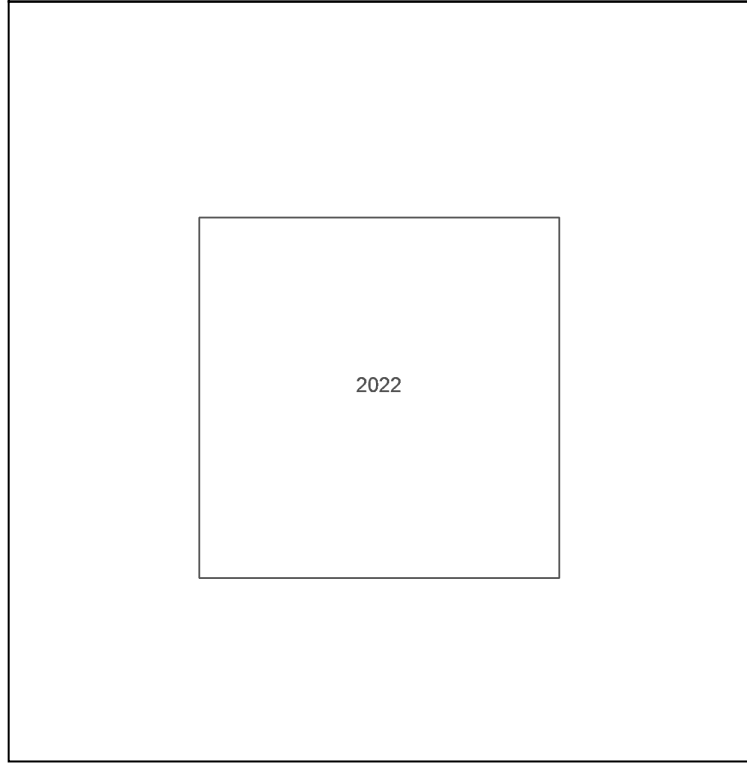
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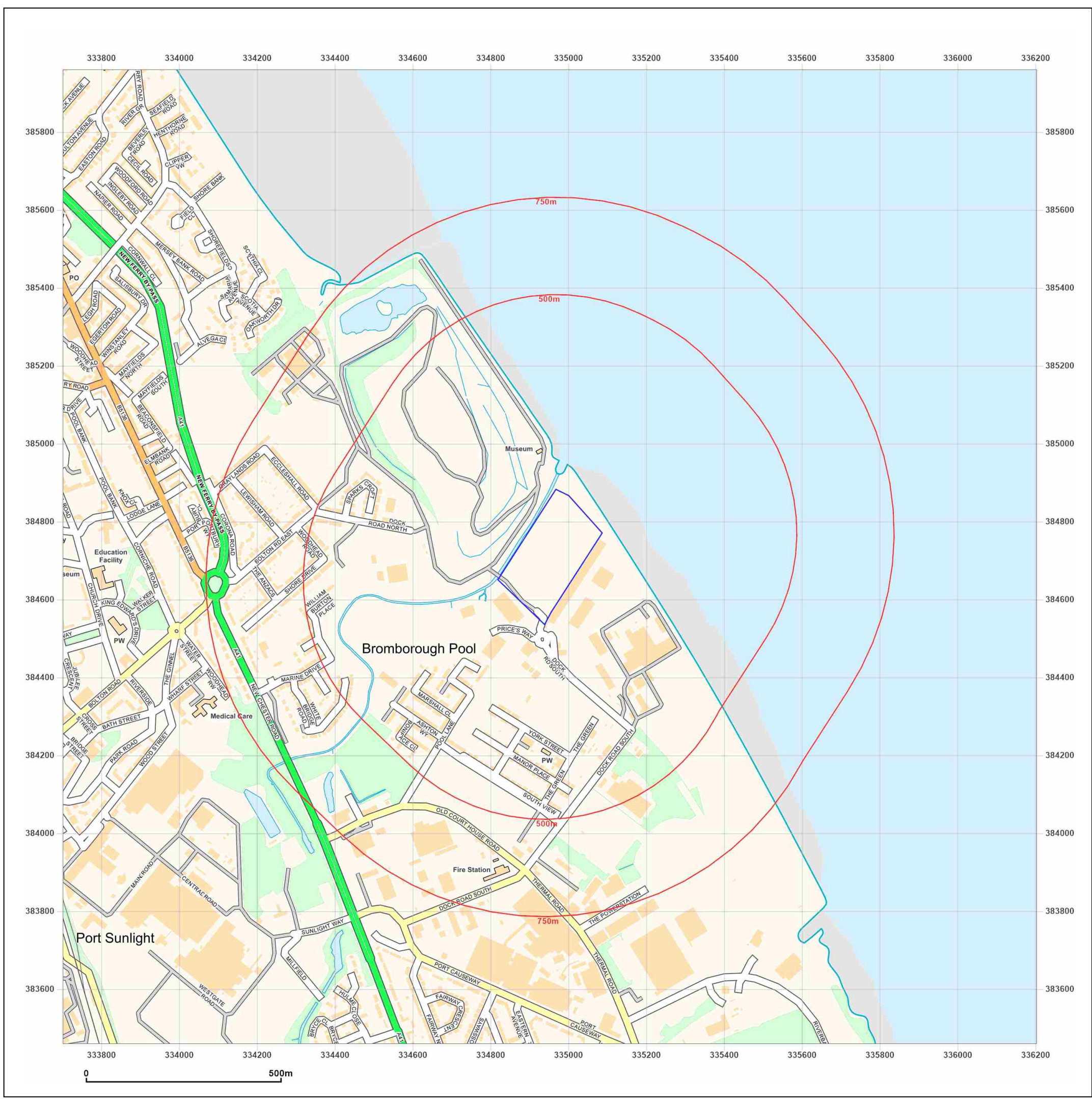


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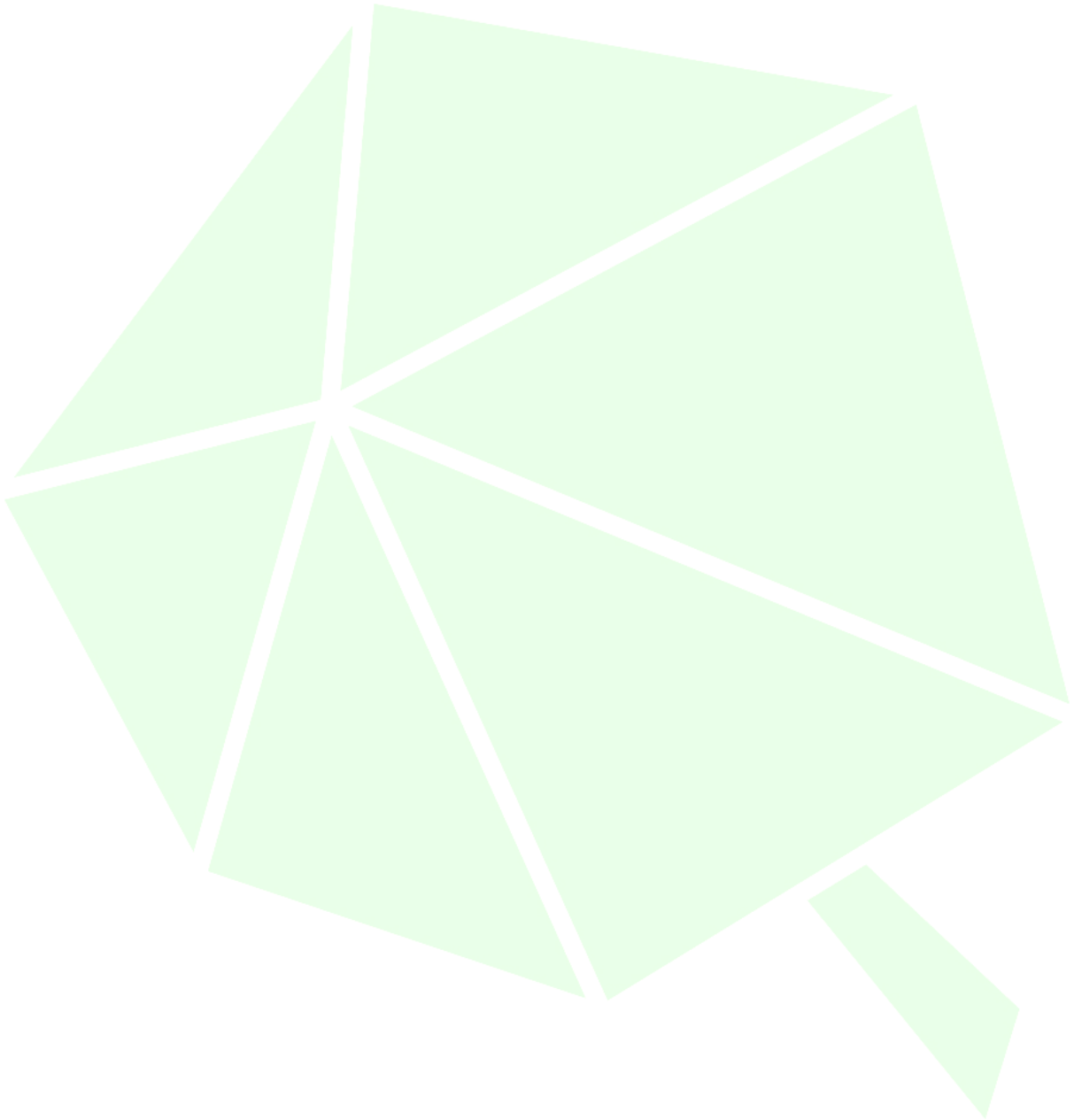
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# App C



**Site Details:**

334947 , 384720

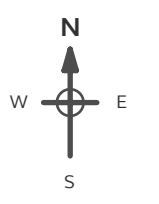
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**Grid Ref:** 334952, 384460

**Map Name:** National Grid

**Map date:** 1954-1955

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed N/A  
 Revised N/A  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1955  
 Revised 1955  
 Edition N/A  
 Copyright N/A  
 Levelled 1947

Surveyed 1955  
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 Edition N/A  
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 Levelled 1947

Surveyed N/A  
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 Edition N/A  
 Copyright N/A  
 Levelled N/A

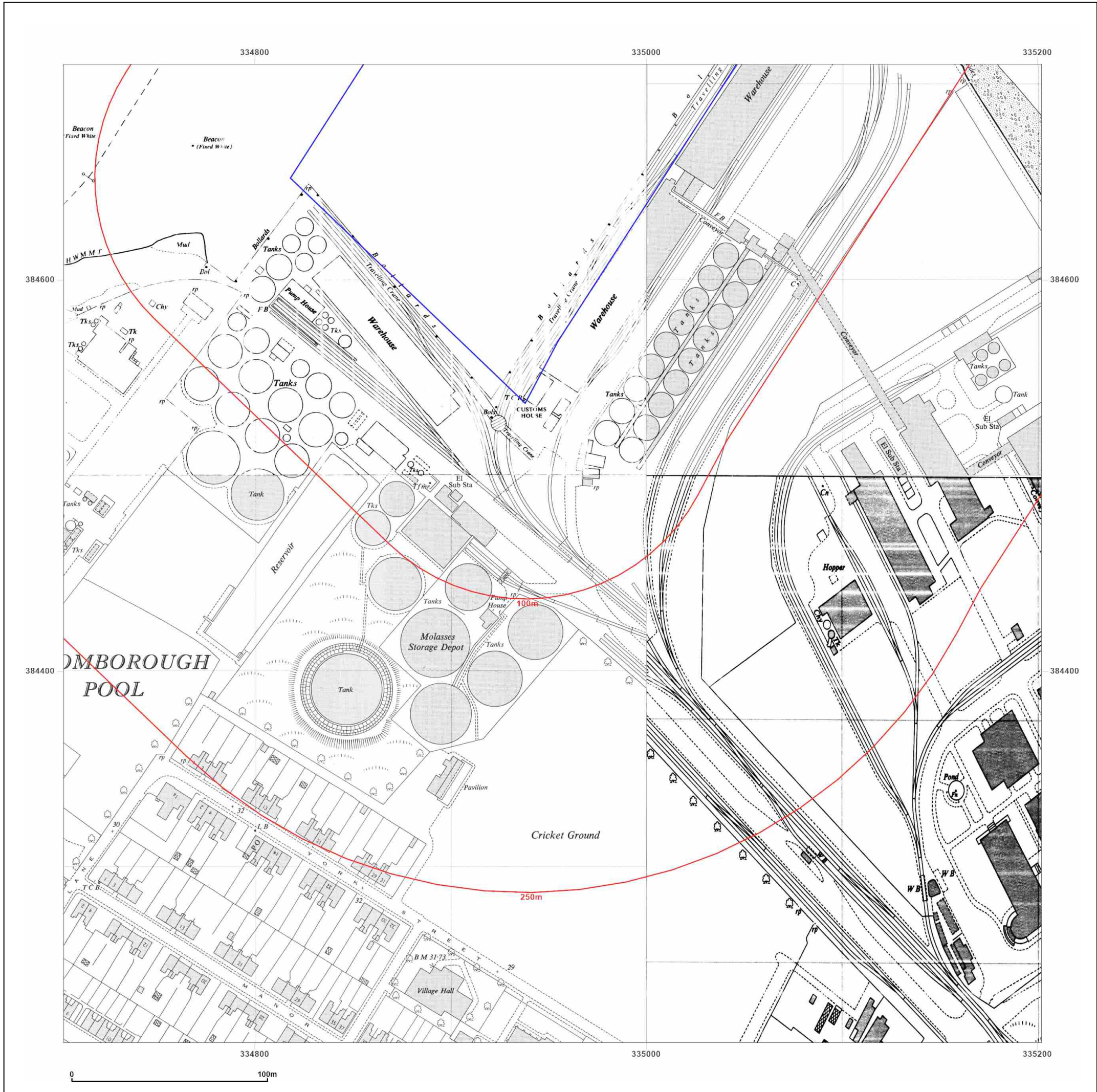


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**Site Details:**

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**Map Name:** National Grid

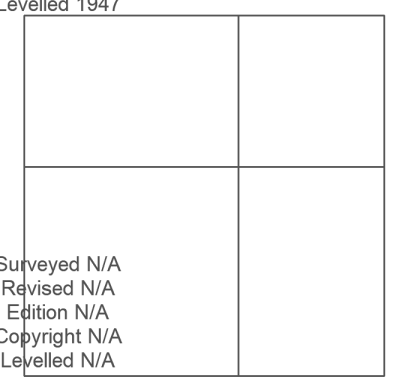
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Surveyed 1955  
 Revised 1955  
 Edition N/A  
 Copyright N/A  
 Levelled 1947



Surveyed N/A  
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 Levelled N/A

Surveyed 1955  
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 Edition N/A  
 Copyright N/A  
 Levelled 1947

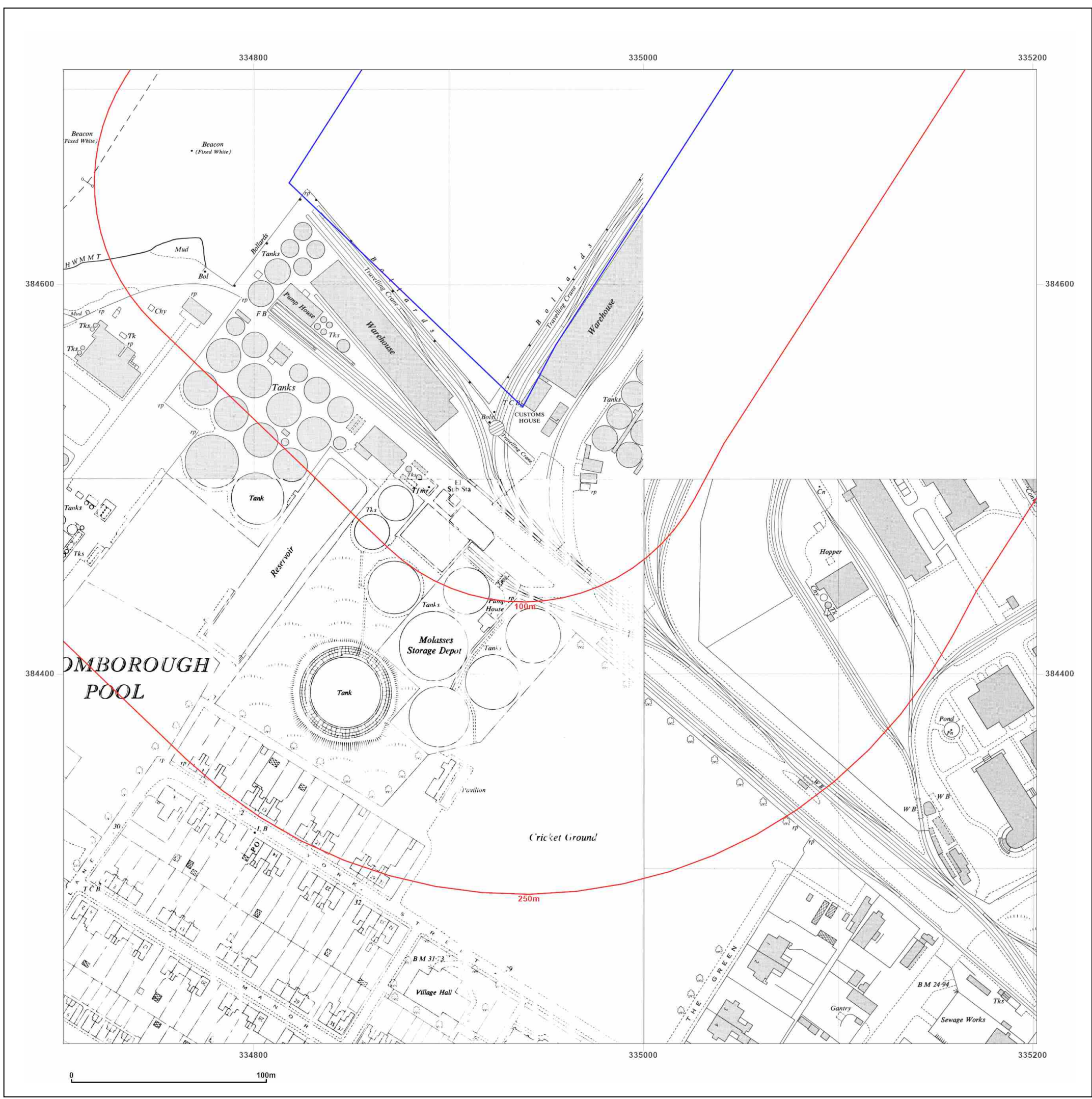


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**Site Details:**

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**Map Name:** National Grid

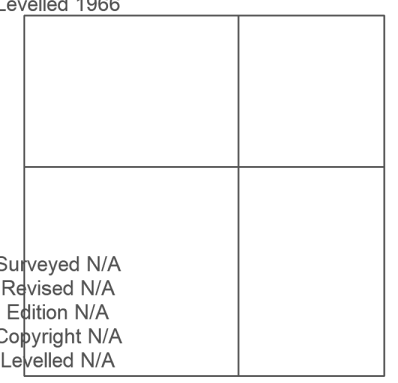
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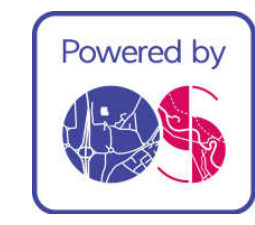


Surveyed 1955  
 Revised 1972  
 Edition N/A  
 Copyright 1972  
 Levelled 1966



Surveyed N/A  
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 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1955  
 Revised 1972  
 Edition N/A  
 Copyright 1972  
 Levelled 1966

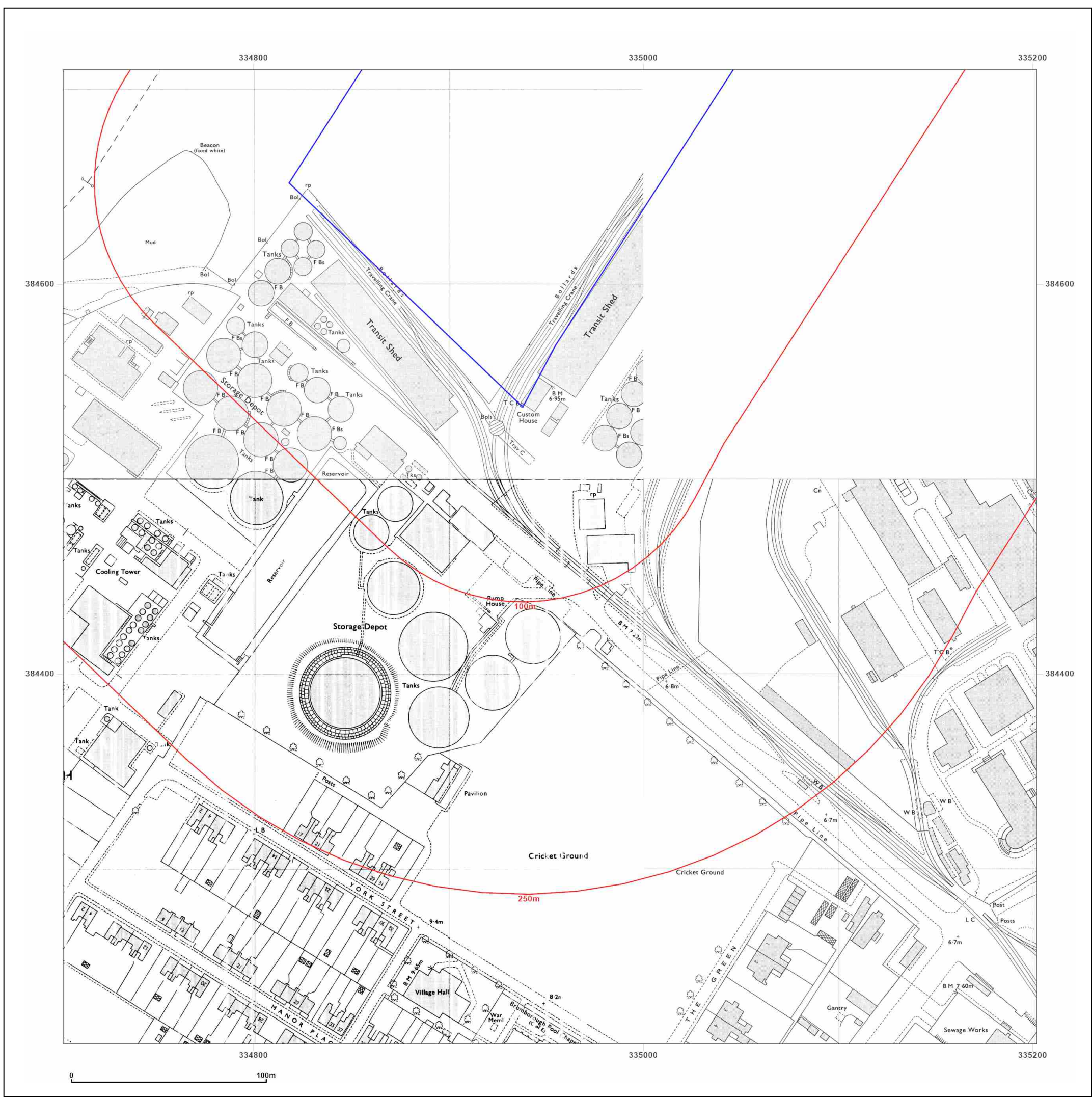


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**Site Details:**

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**Map Name:** National Grid

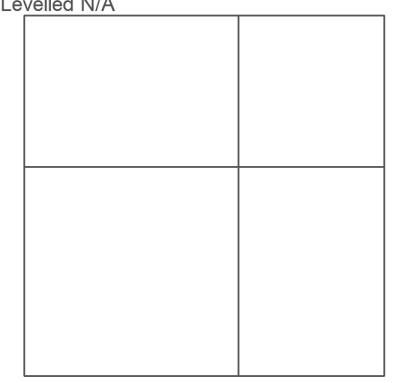
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**Scale:** 1:1,250

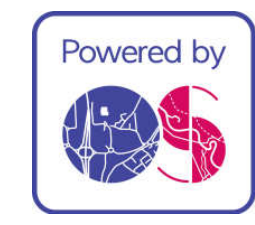
**Printed at:** 1:2,000



Surveyed N/A  
 Revised N/A  
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 Levelled N/A



Surveyed N/A  
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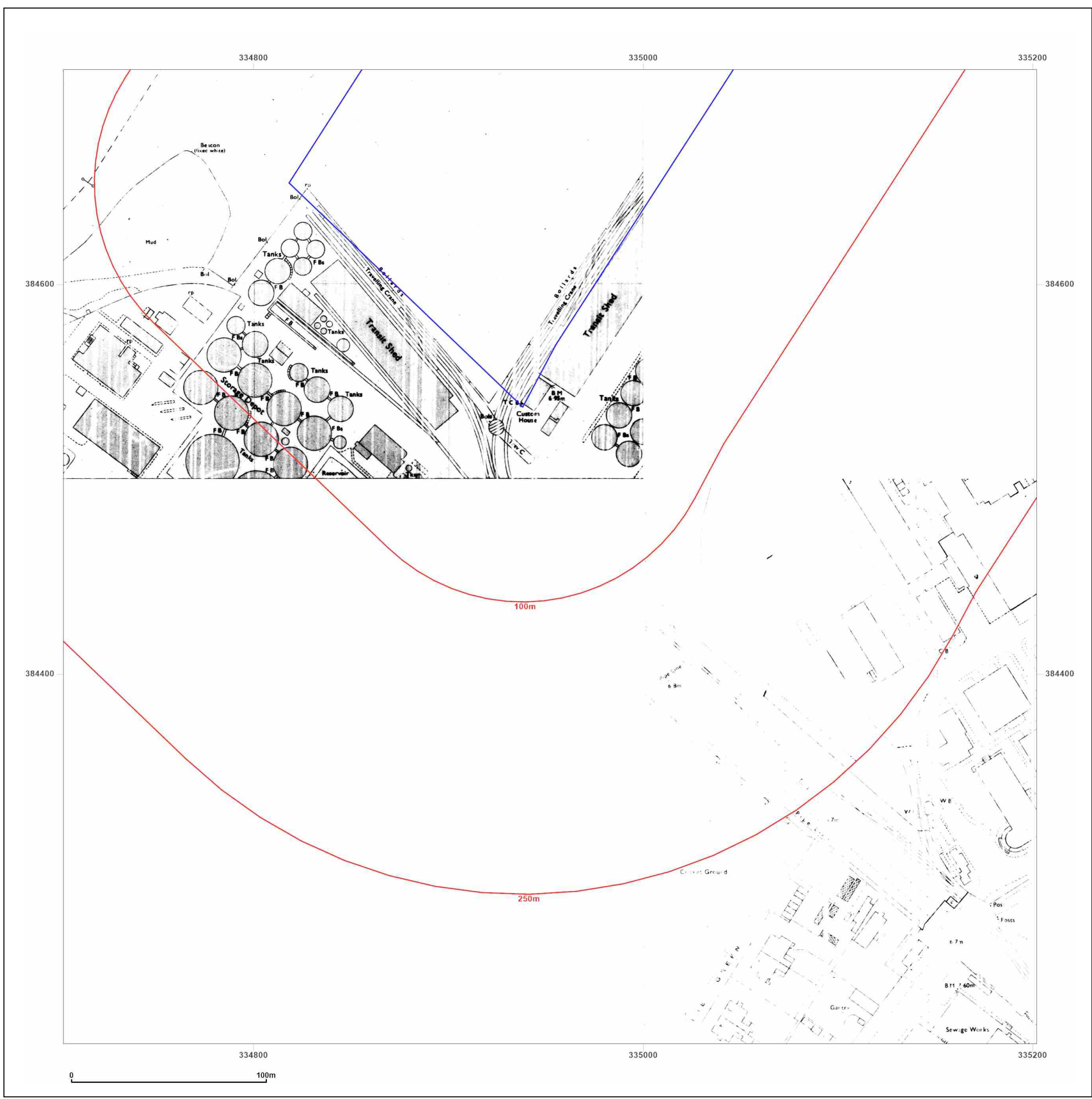


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**Site Details:**

334947 , 384720

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**Map Name:** National Grid

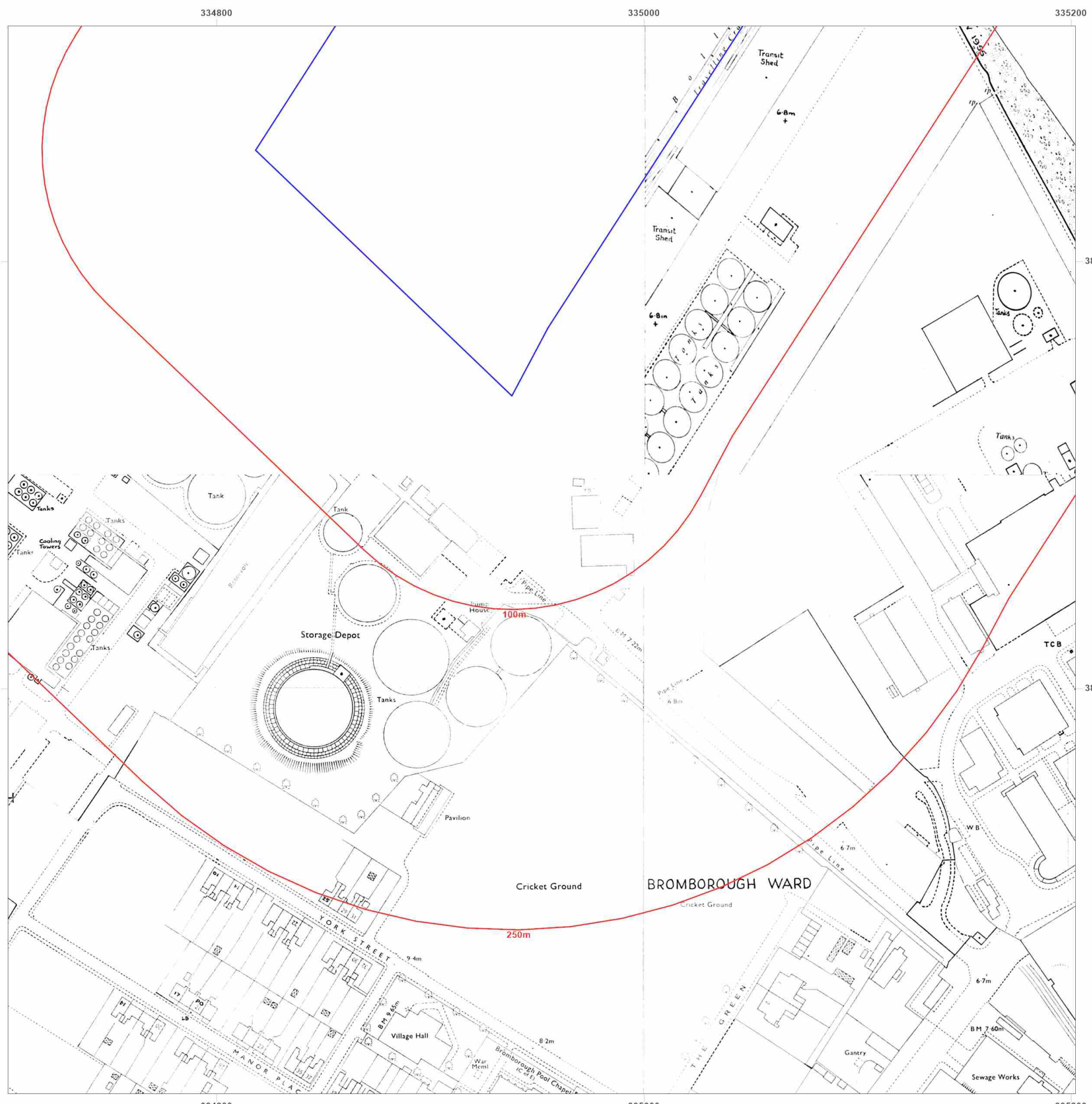
**Map date:** 1984

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed N/A Revised N/A Edition N/A Copyright 1984 Levelled 1966		Surveyed N/A Revised N/A Edition N/A Copyright 1984 Levelled 1966
Surveyed 1966 Revised 1984 Edition N/A Copyright 1984 Levelled 1966		Surveyed N/A Revised N/A Edition N/A Copyright 1984 Levelled 1966



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**Site Details:**

334947 , 384720

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**Map Name:** National Grid

**Map date:** 1990-1993

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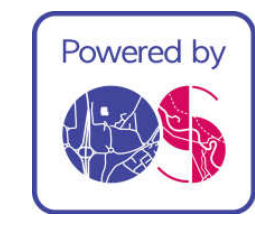


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 Edition N/A  
 Copyright 1990  
 Levelled 1966

Surveyed 1993  
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 Copyright N/A  
 Levelled N/A

Surveyed N/A  
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 Edition N/A  
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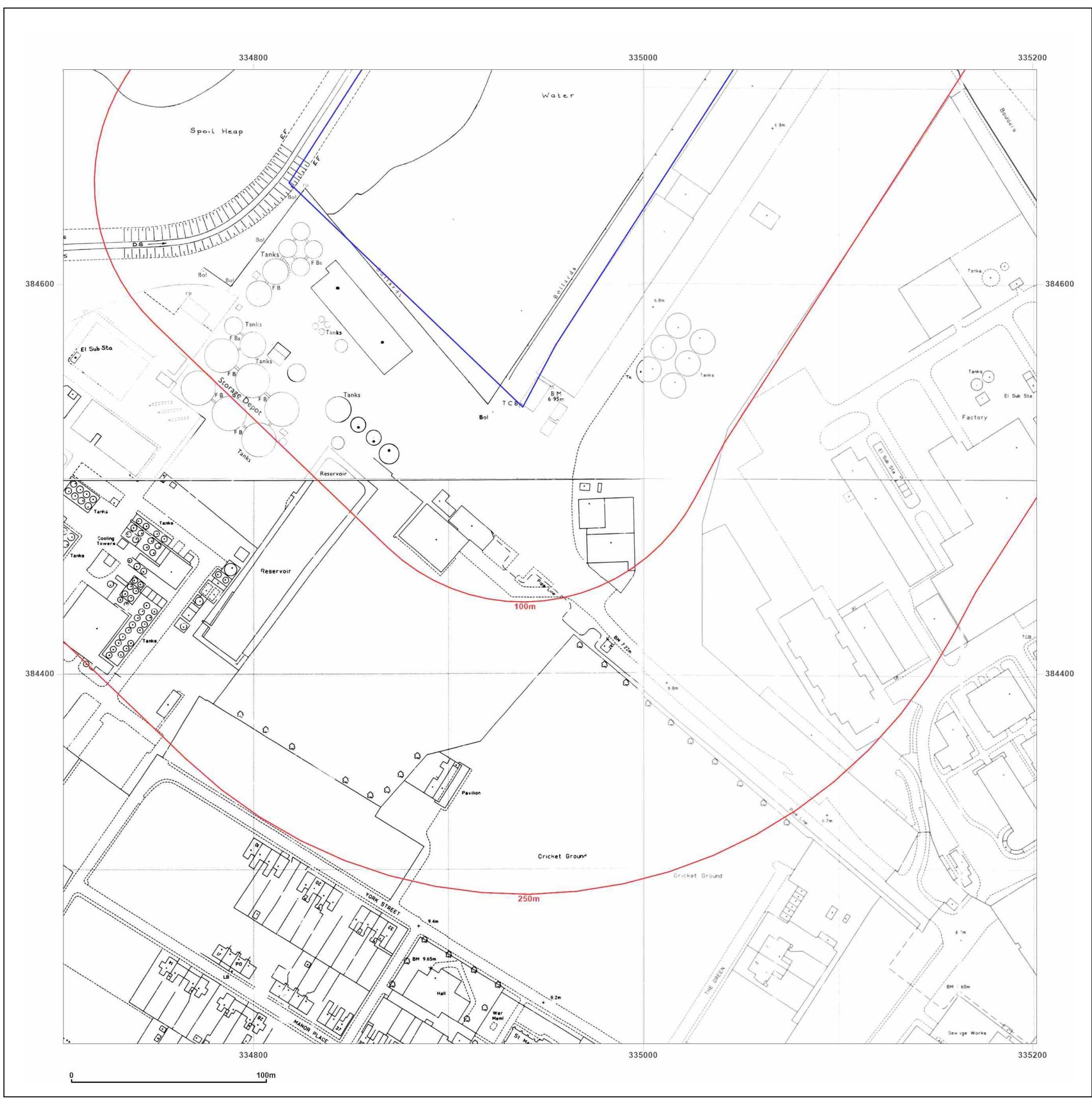


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**Site Details:**

334947 , 384720

**Client Ref:** 016\_1\_Bromborough  
**Report Ref:** GS-9077522\_1250\_1\_1  
**Grid Ref:** 334952, 384460

**Map Name:** National Grid

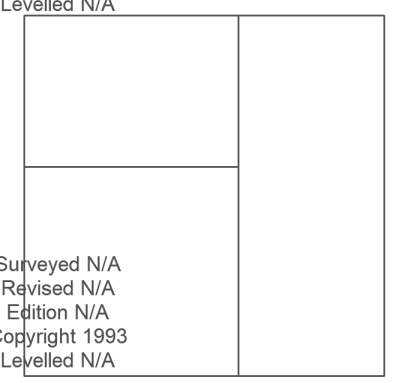
**Map date:** 1992-1993

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed N/A  
 Revised N/A  
 Edition N/A  
 Copyright 1992  
 Levelled N/A



Surveyed N/A  
 Revised N/A  
 Edition N/A  
 Copyright 1993  
 Levelled N/A

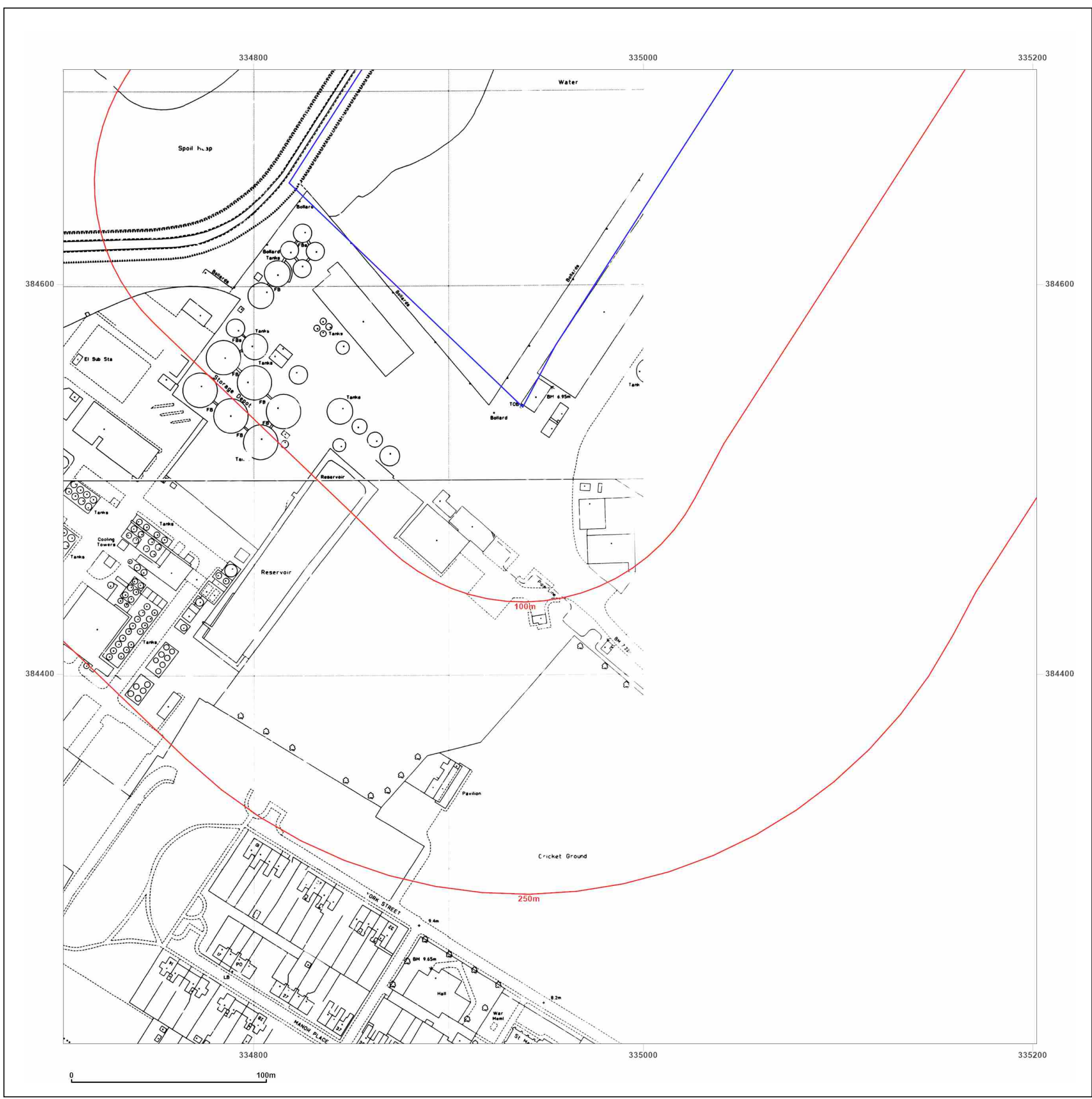


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**Site Details:**

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**Report Ref:** GS-9077522\_1250\_1\_1  
**Grid Ref:** 334952, 384460

**Map Name:** National Grid

**Map date:** 1993

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed 1993  
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**Site Details:**

334947 , 384720

**Client Ref:** 016\_1\_Bromborough  
**Report Ref:** GS-9077522\_1250\_1\_2  
**Grid Ref:** 334952, 384960

**Map Name:** National Grid

**Map date:** 1954-1955

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed 1954  
 Revised 1954  
 Edition N/A  
 Copyright N/A  
 Levelled 1947

Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	Surveyed 1955 Revised 1955 Edition N/A Copyright N/A Levelled 1947

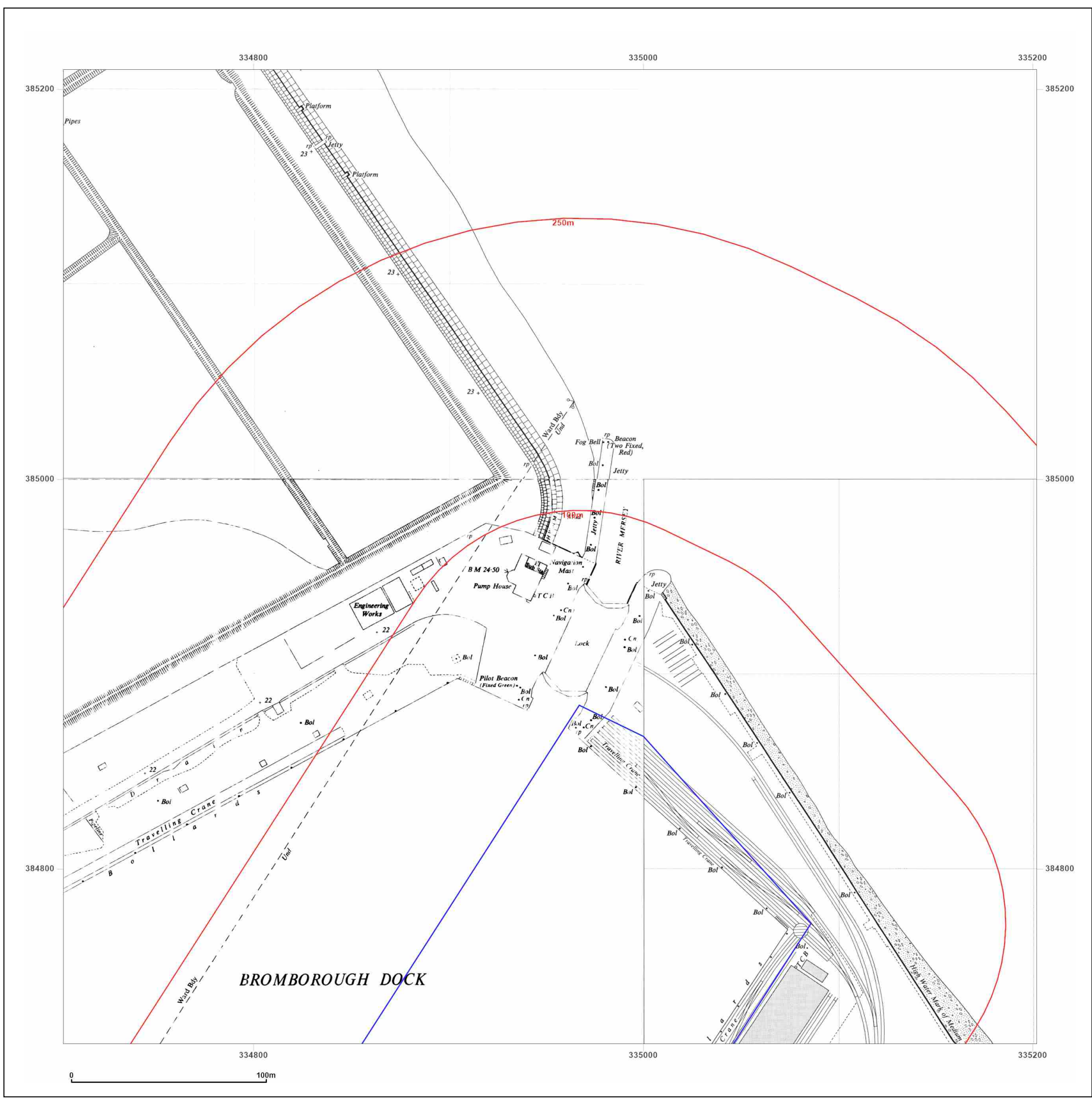


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**Site Details:**

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**Grid Ref:** 334952, 384960

**Map Name:** National Grid

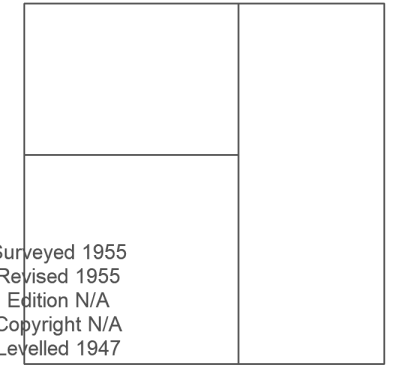
**Map date:** 1955

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed N/A  
 Revised N/A  
 Edition N/A  
 Copyright N/A  
 Levelled N/A



Surveyed 1955  
 Revised 1955  
 Edition N/A  
 Copyright N/A  
 Levelled 1947

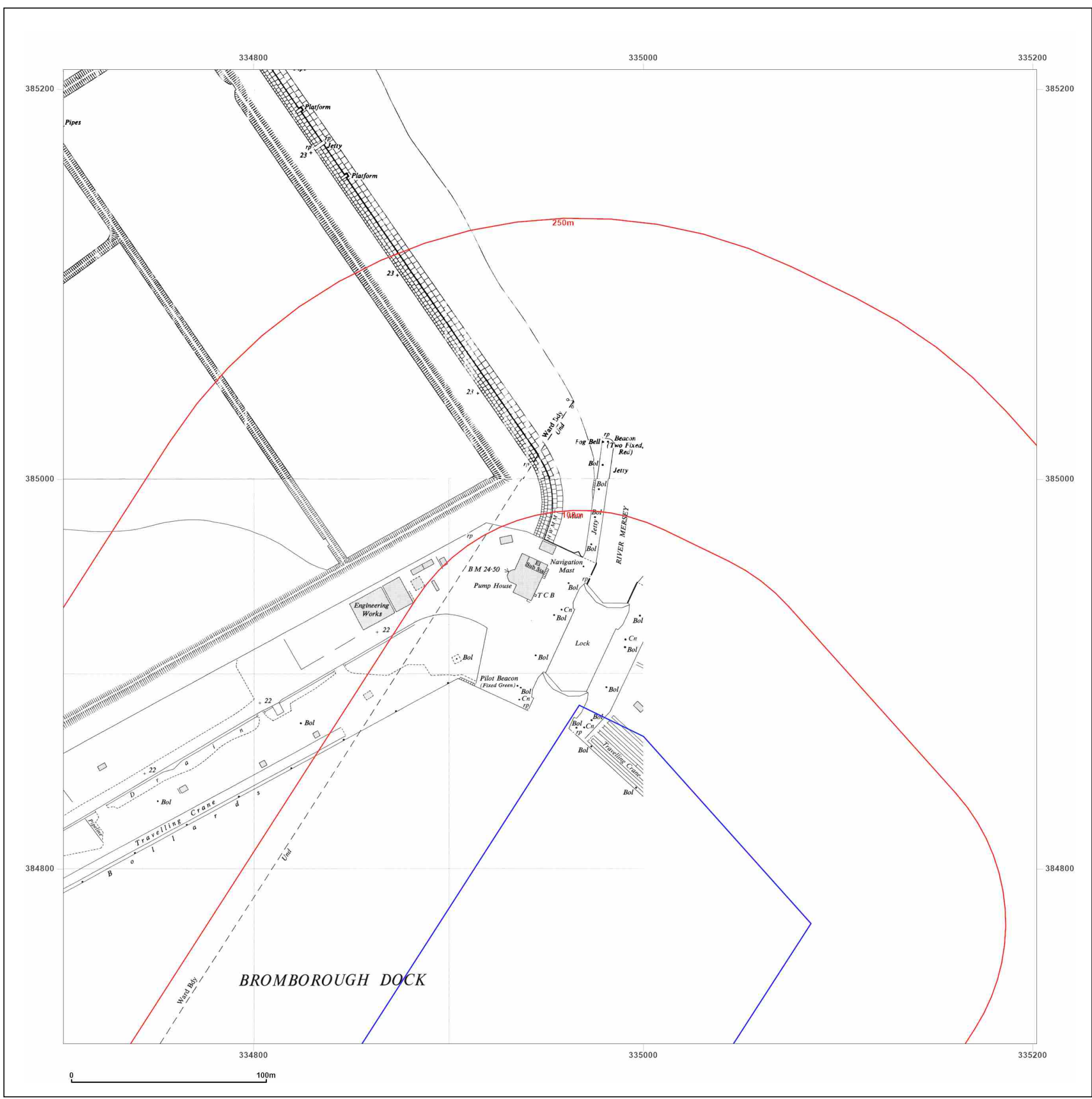


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**Site Details:**

334947 , 384720

**Client Ref:** 016\_1\_Bromborough  
**Report Ref:** GS-9077522\_1250\_1\_2  
**Grid Ref:** 334952, 384960

**Map Name:** National Grid

**Map date:** 1972

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed 1955  
 Revised 1972  
 Edition N/A  
 Copyright 1972  
 Levelled 1966

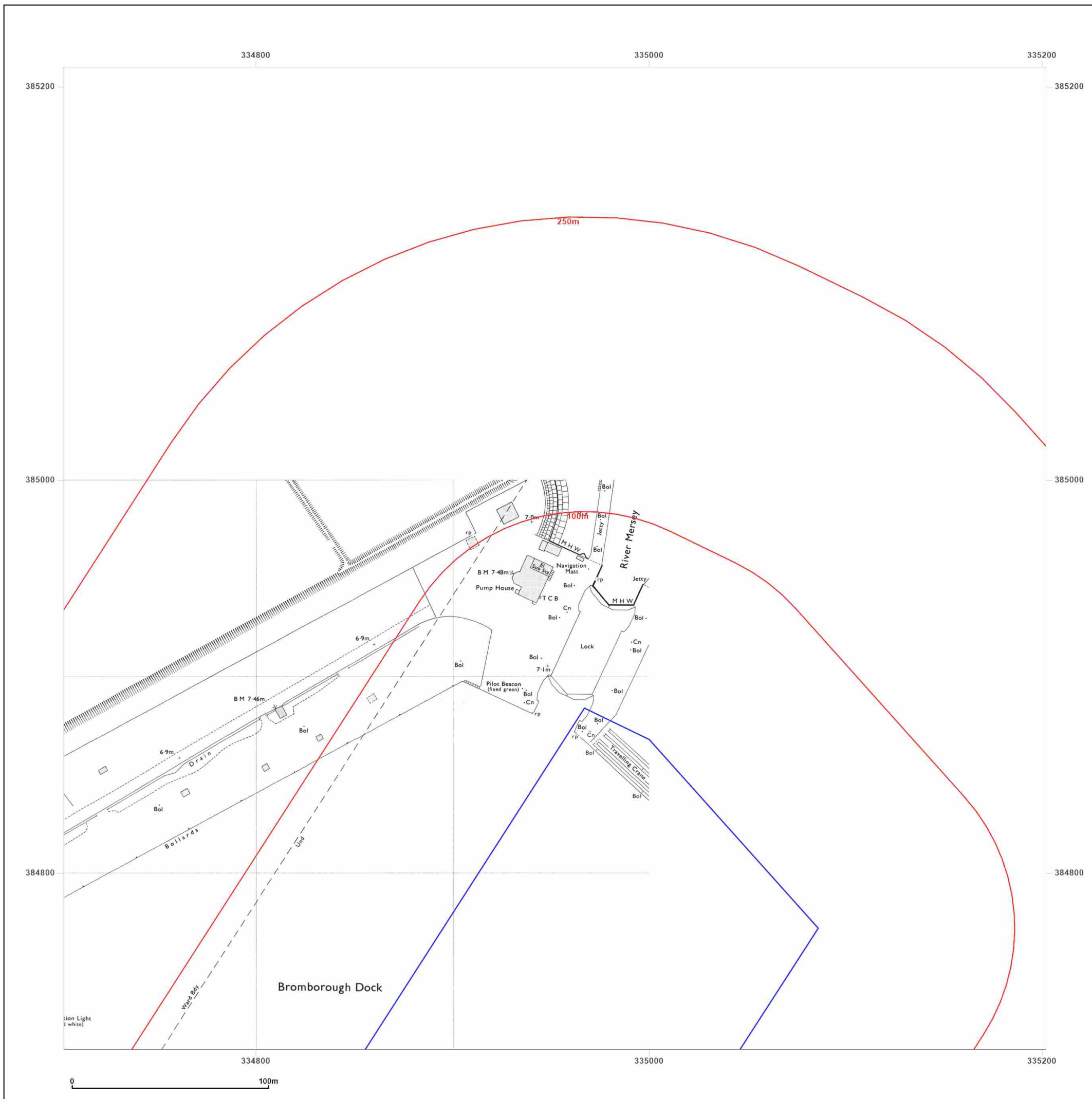


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**Site Details:**

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**Client Ref:** 016\_1\_Bromborough  
**Report Ref:** GS-9077522\_1250\_1\_2  
**Grid Ref:** 334952, 384960

**Map Name:** National Grid

**Map date:** 1974

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed N/A  
 Revised N/A  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

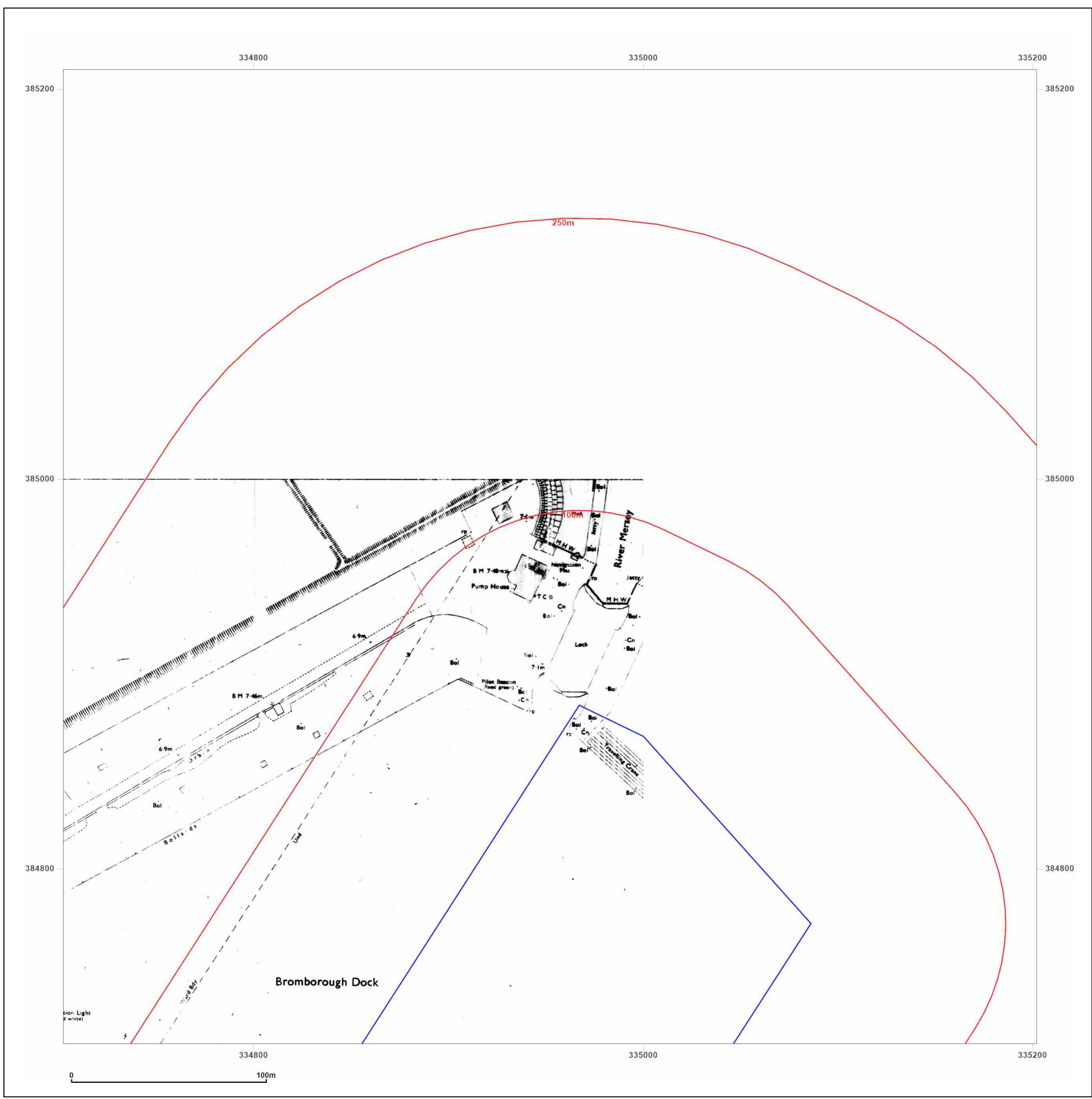


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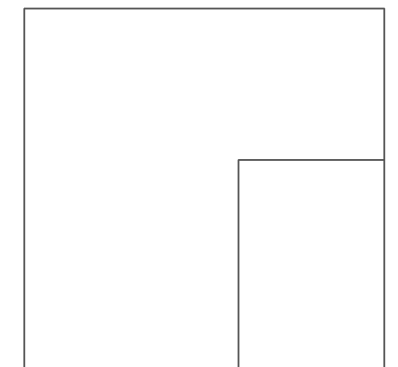
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**Grid Ref:** 334952, 384960

**Map Name:** National Grid

**Map date:** 1984

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed N/A  
 Revised N/A  
 Edition N/A  
 Copyright 1984  
 Levelled 1966

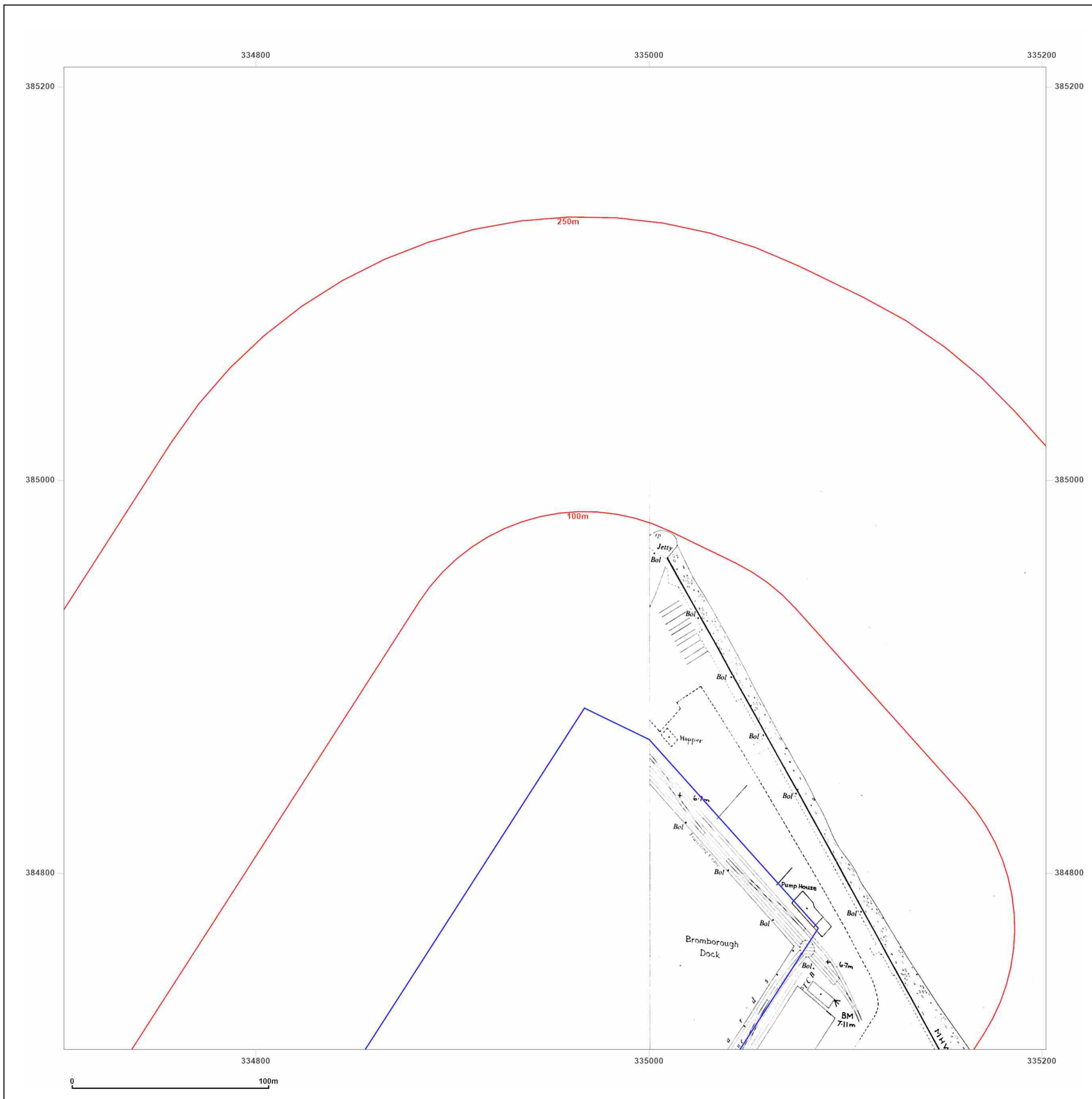


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**Grid Ref:** 334952, 384960

**Map Name:** National Grid

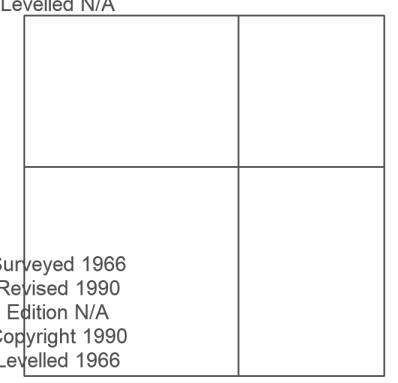
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**Printed at:** 1:2,000

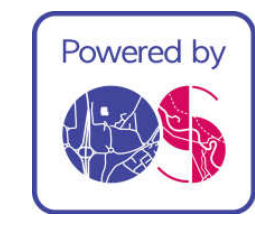


Surveyed N/A  
 Revised N/A  
 Edition N/A  
 Copyright N/A  
 Levelled N/A



Surveyed 1966  
 Revised 1990  
 Edition N/A  
 Copyright 1990  
 Levelled 1966

Surveyed 1993  
 Revised 1993  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

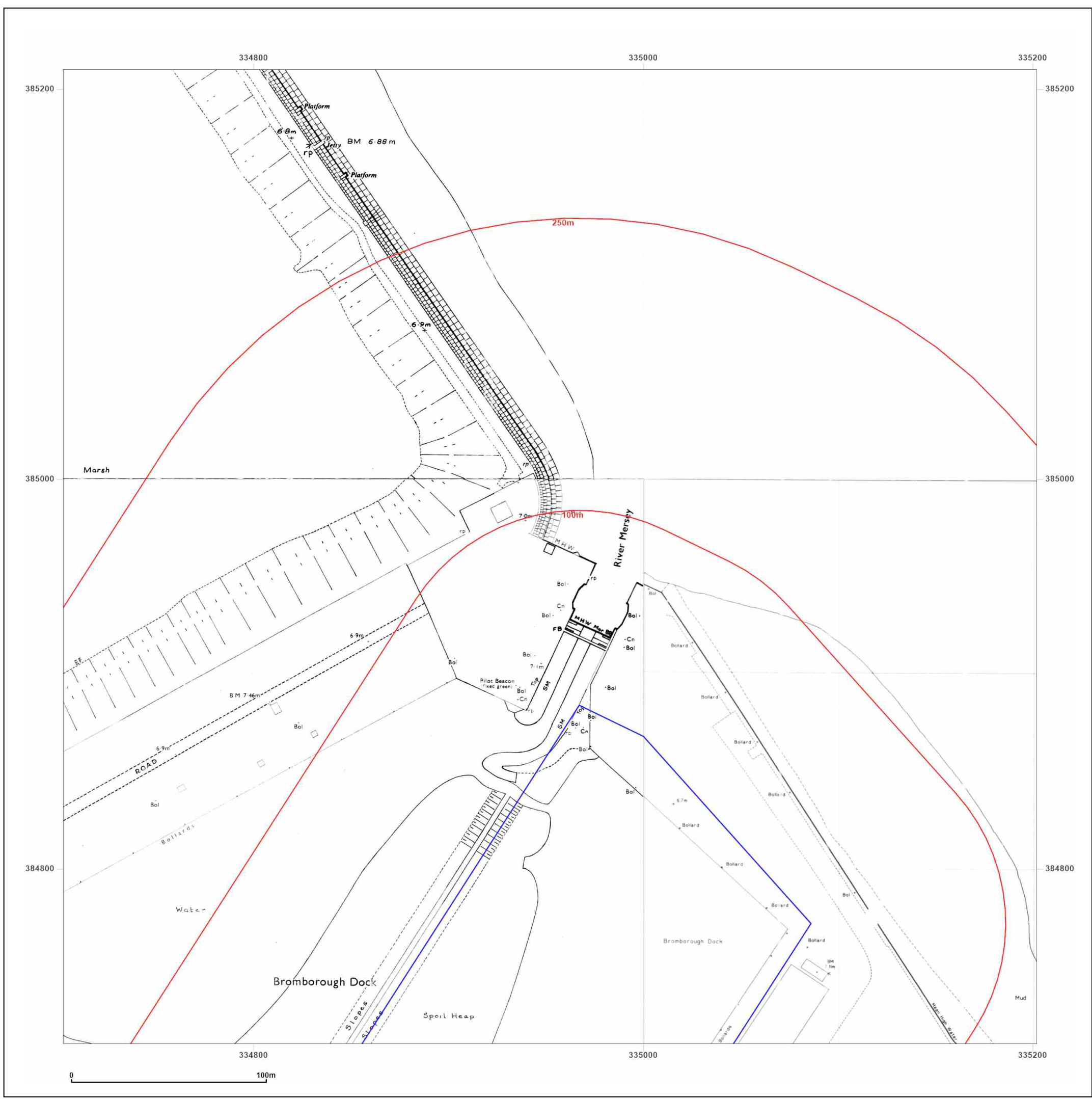


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**Site Details:**

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**Map Name:** National Grid

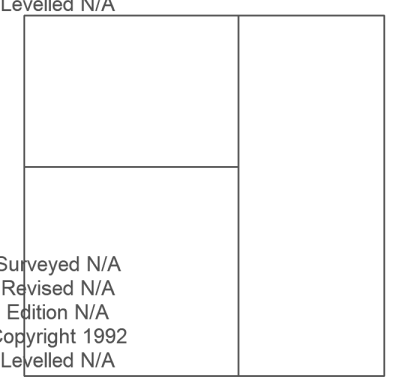
**Map date:** 1992-1993

**Scale:** 1:1,250

**Printed at:** 1:2,000



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 Revised N/A  
 Edition N/A  
 Copyright 1993  
 Levelled N/A



Surveyed N/A  
 Revised N/A  
 Edition N/A  
 Copyright 1992  
 Levelled N/A

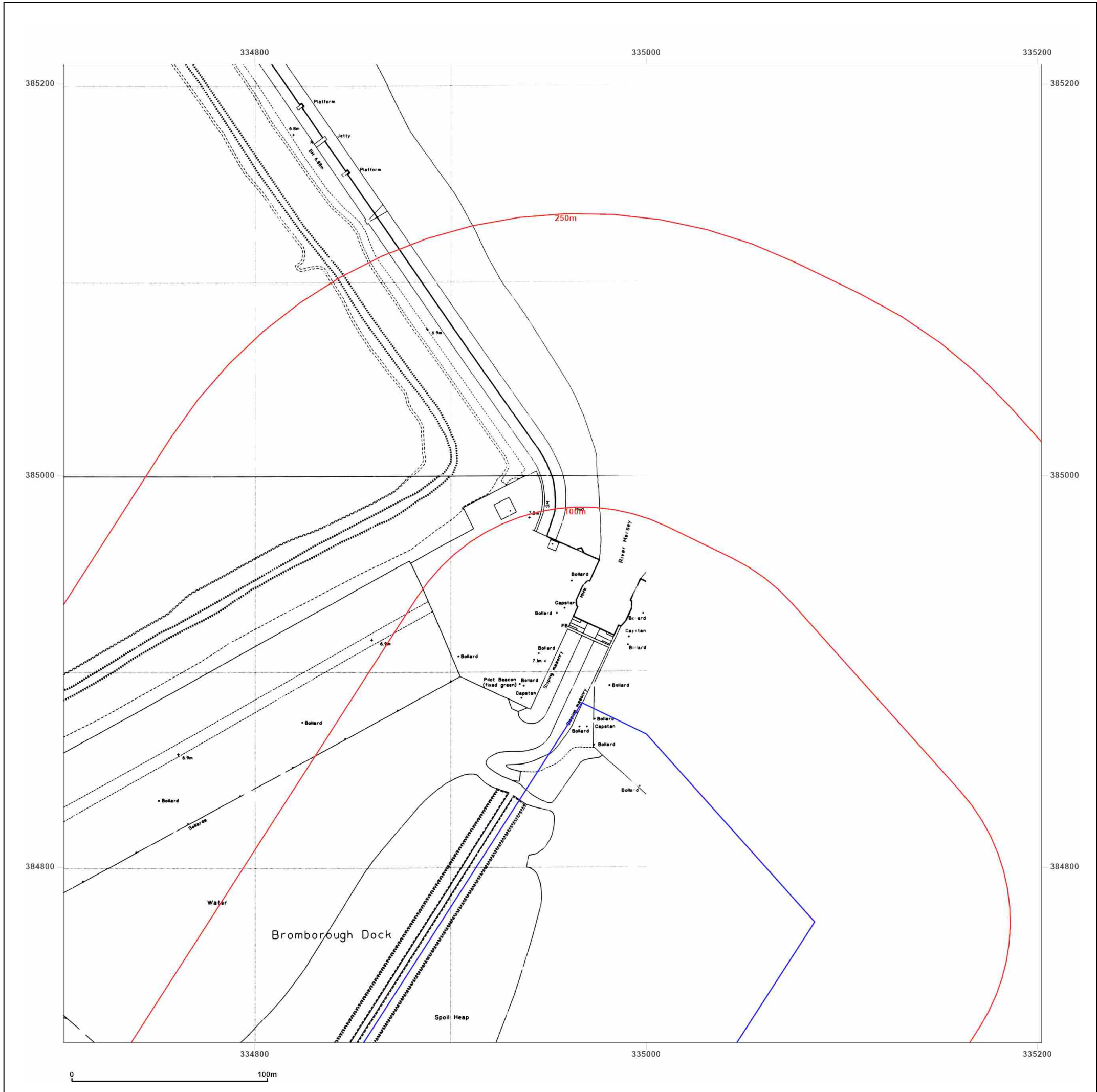


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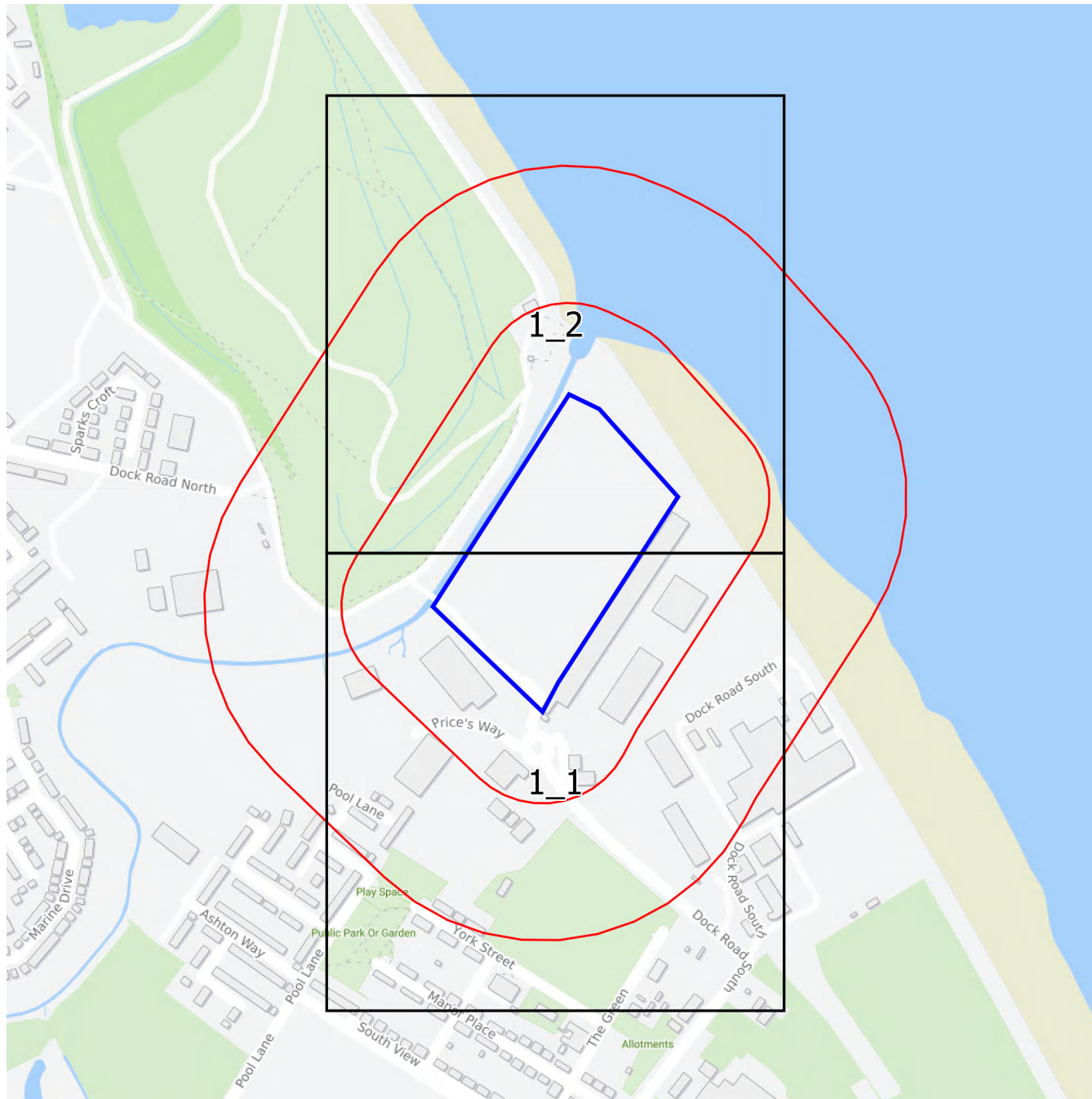




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**Site Details:**

334947 , 384720

**Client Ref:** 016\_1\_Bromborough  
**Report Ref:** GS-9077522\_2500  
**Grid Ref:** 334951, 384709

**Map Name:** County Series

**Map date:** 1872-1874

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1874  
 Revised 1874  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1872  
 Revised 1872  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

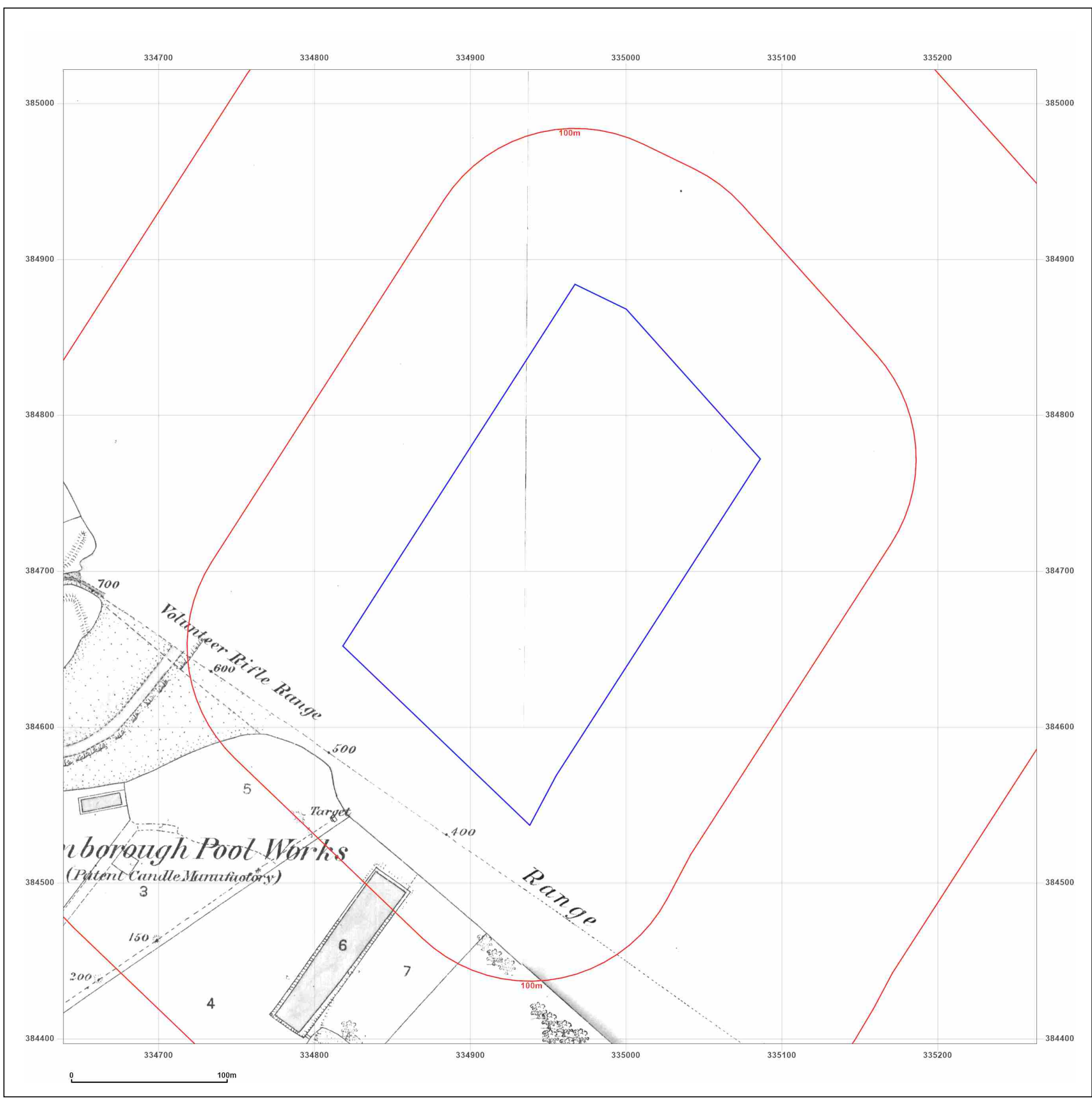


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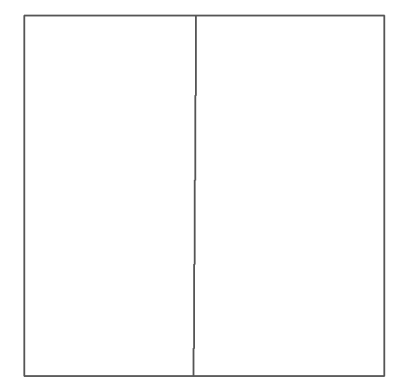
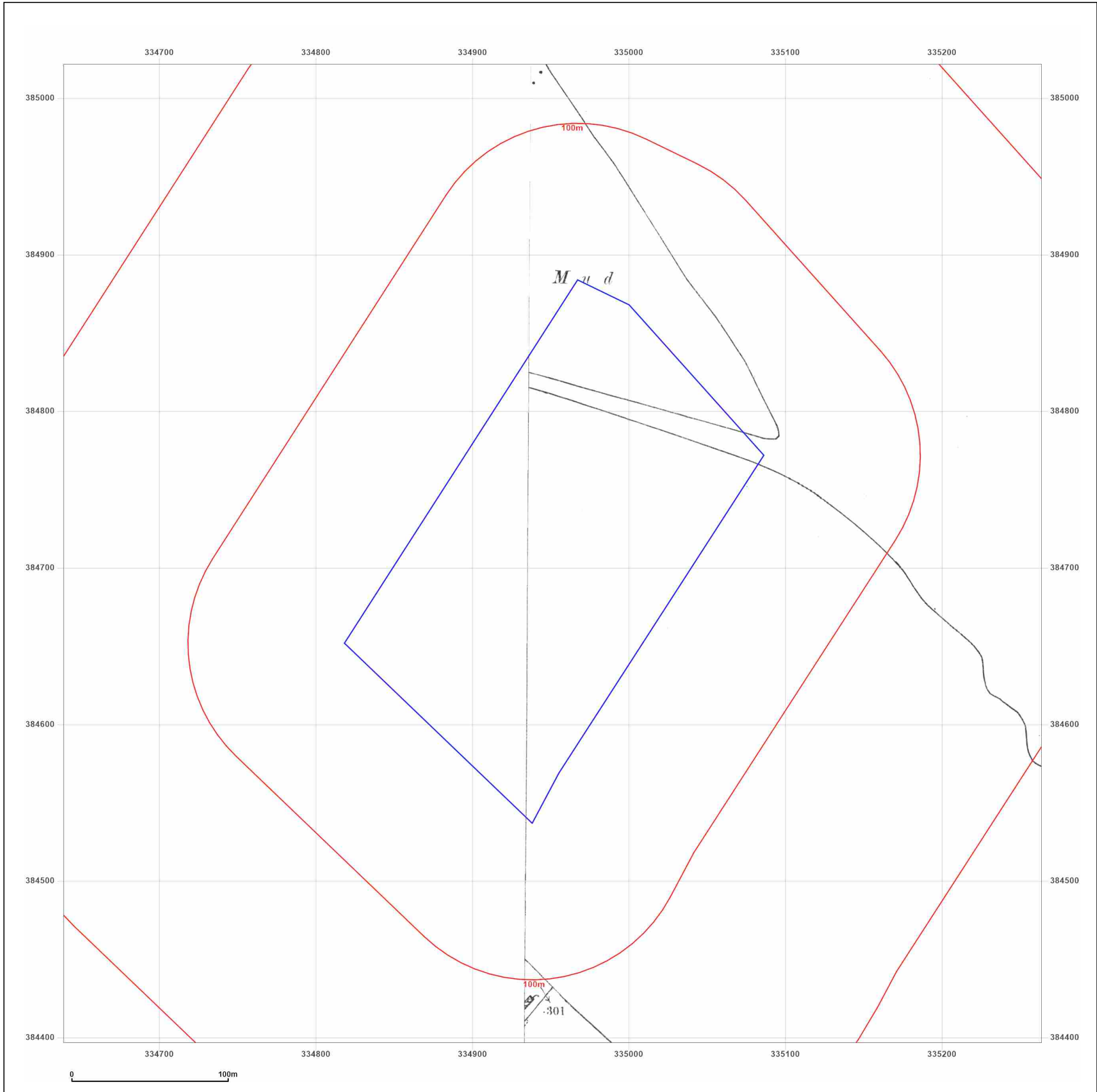
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**Grid Ref:** 334951, 384709

**Map Name:** County Series

**Map date:** 1899

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1899  
 Revised 1899  
 Edition N/A  
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**Site Details:**

334947 , 384720

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**Report Ref:** GS-9077522\_2500  
**Grid Ref:** 334951, 384709

**Map Name:** County Series

**Map date:** 1911-1912

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1912  
 Revised 1912  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1911  
 Revised 1911  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

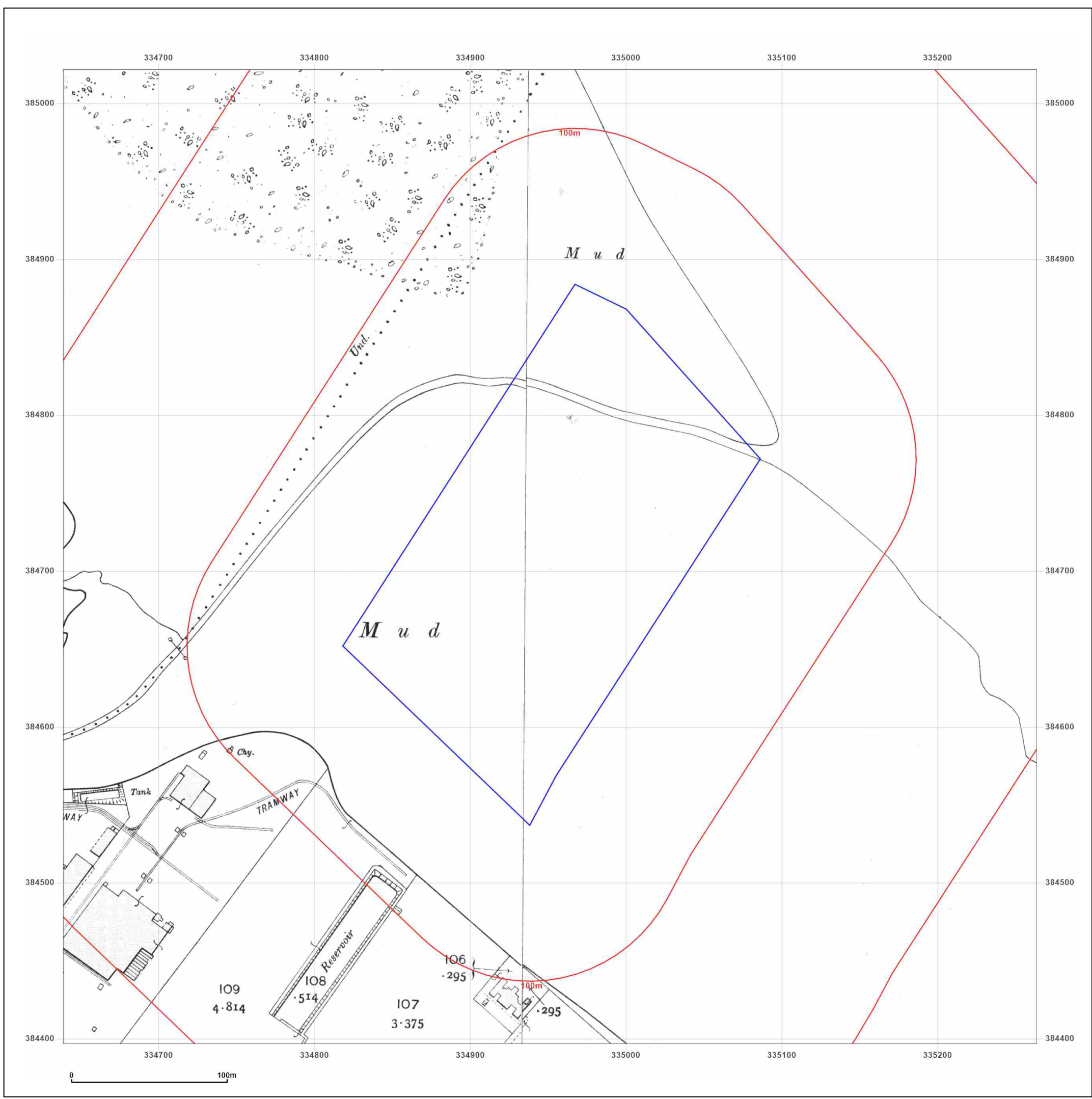


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**Site Details:**

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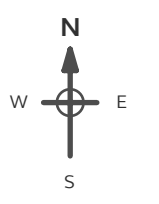
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**Grid Ref:** 334951, 384709

**Map Name:** County Series

**Map date:** 1926-1927

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1927  
 Revised 1927  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1926  
 Revised 1926  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

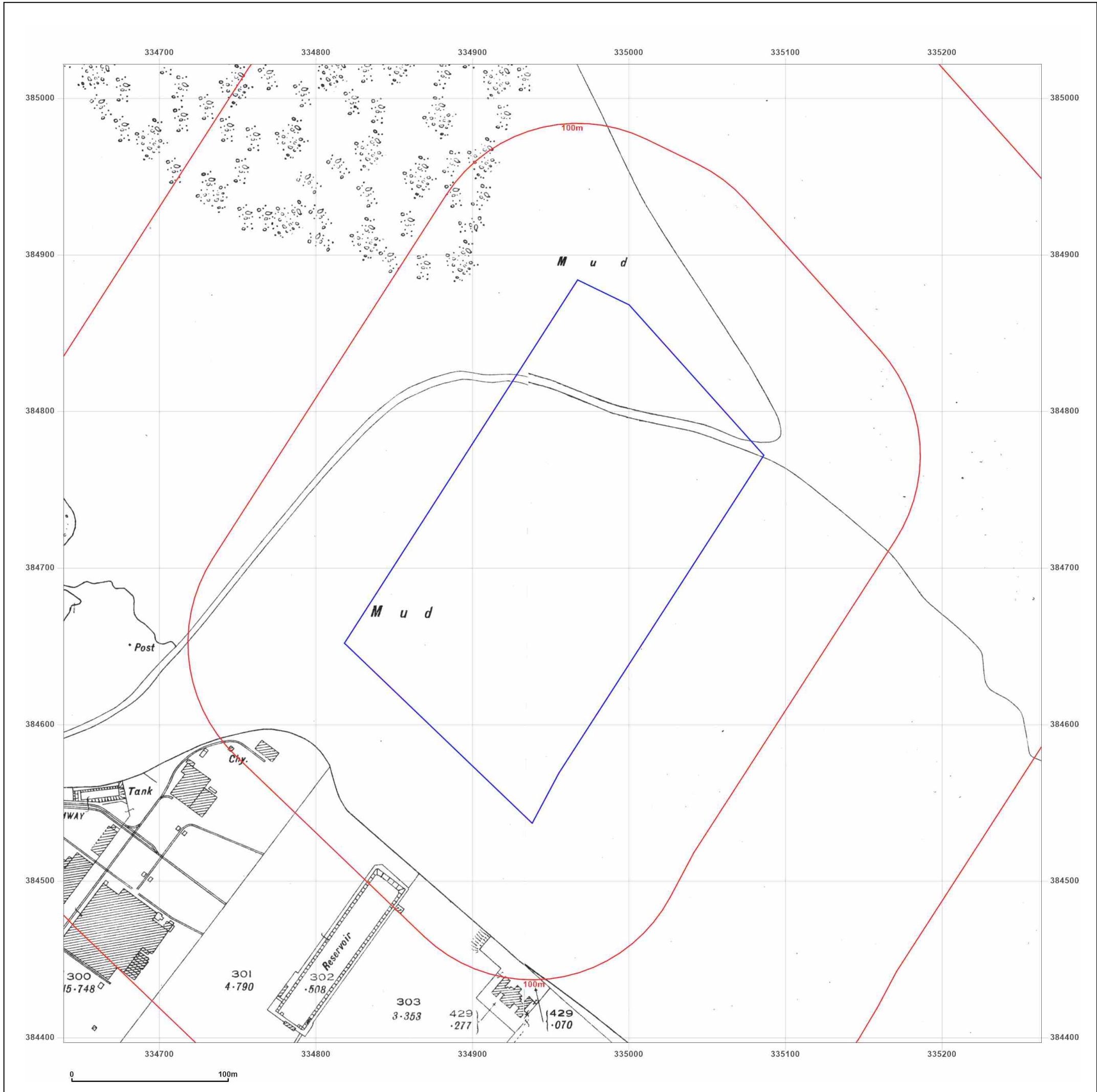


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**Site Details:**

334947 , 384720

**Client Ref:** 016\_1\_Bromborough  
**Report Ref:** GS-9077522\_2500  
**Grid Ref:** 334951, 384709

**Map Name:** County Series

**Map date:** 1936

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1936  
 Revised 1936  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

Surveyed 1936  
 Revised 1936  
 Edition N/A  
 Copyright N/A  
 Levelled N/A

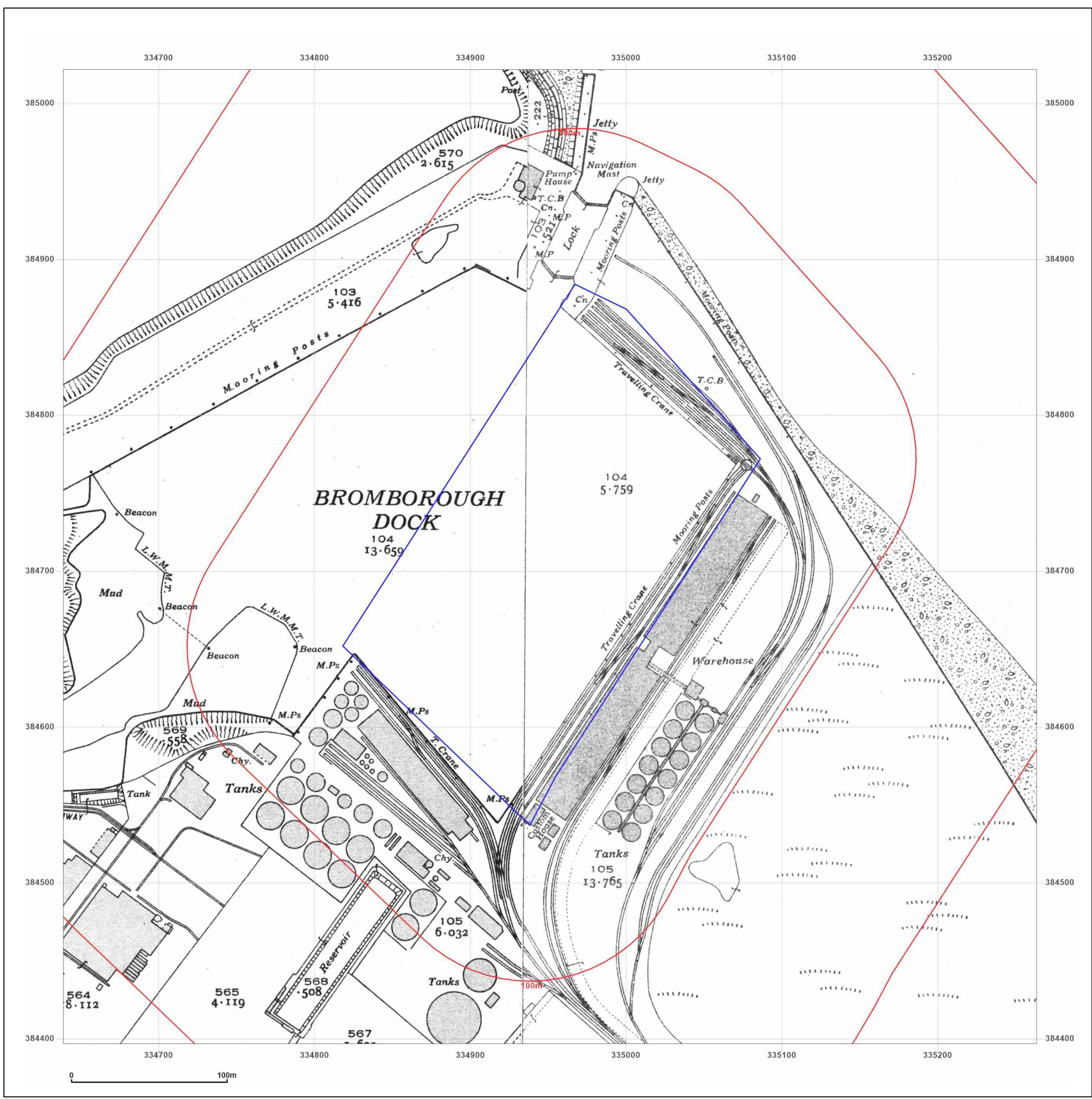


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**Site Details:**

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**Client Ref:** 016\_1\_Bromborough  
**Report Ref:** GS-9077522\_2500  
**Grid Ref:** 334951, 384709

**Map Name:** National Grid

**Map date:** 1956

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1955  
 Revised 1955  
 Edition 1956  
 Copyright N/A  
 Levelled 1947

Surveyed 1955  
 Revised 1955  
 Edition 1956  
 Copyright N/A  
 Levelled 1947

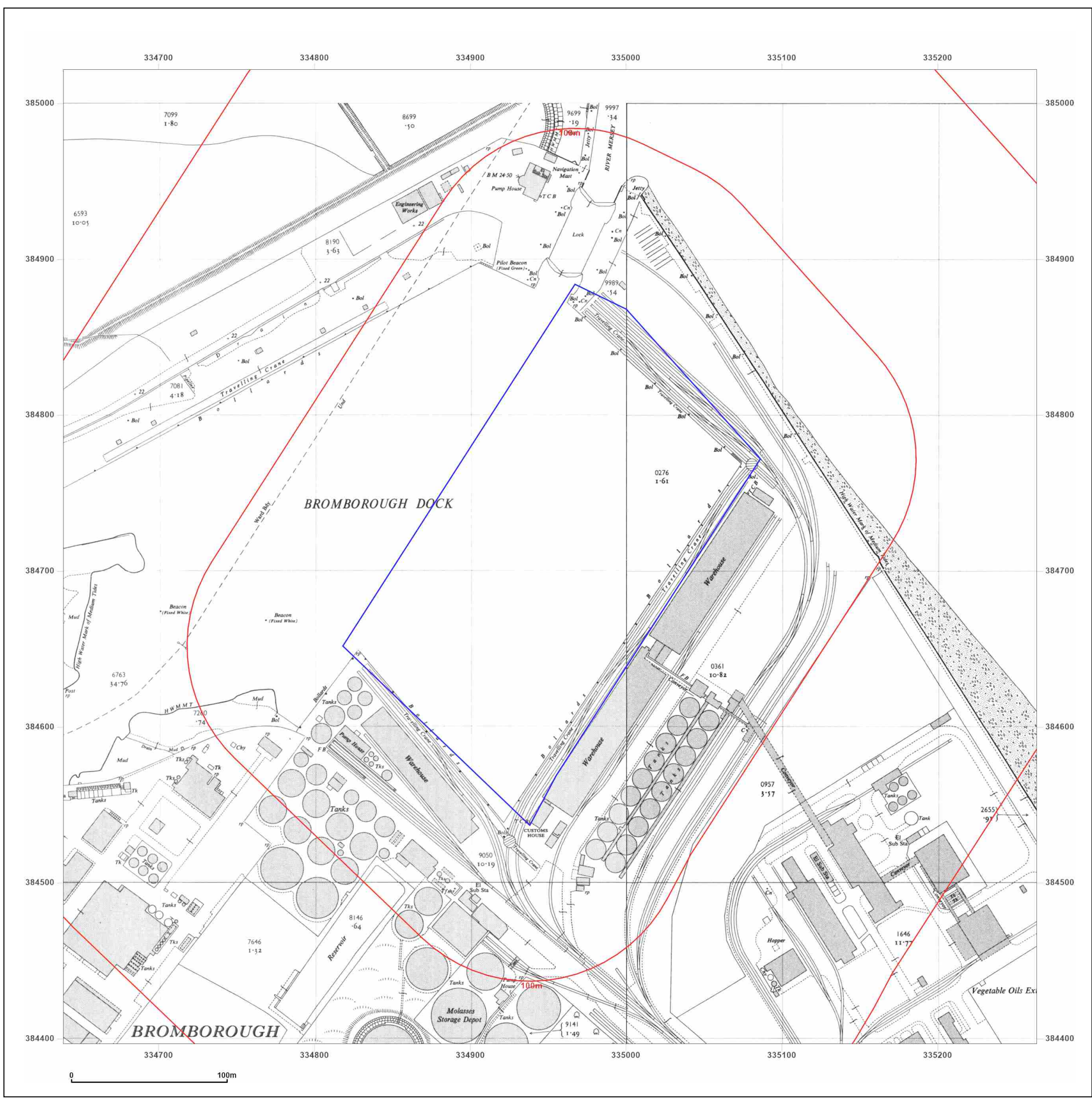


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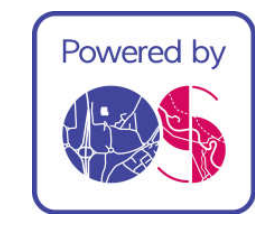
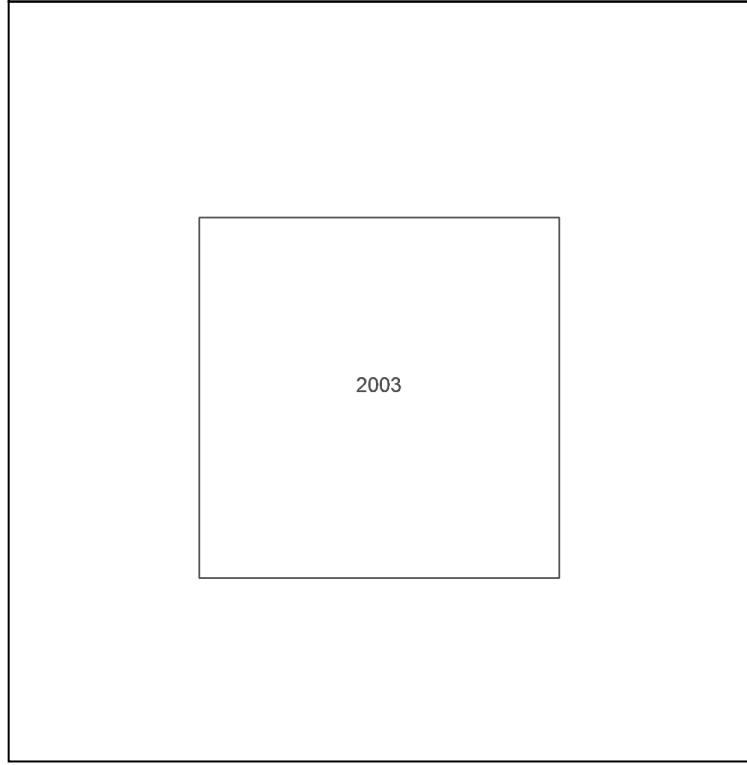
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**Report Ref:** GS-9077522\_Landline\_1\_1  
**Grid Ref:** 334952, 384560

**Map Name:** LandLine

**Map date:** 2003

**Scale:** 1:1,250

**Printed at:** 1:1,250

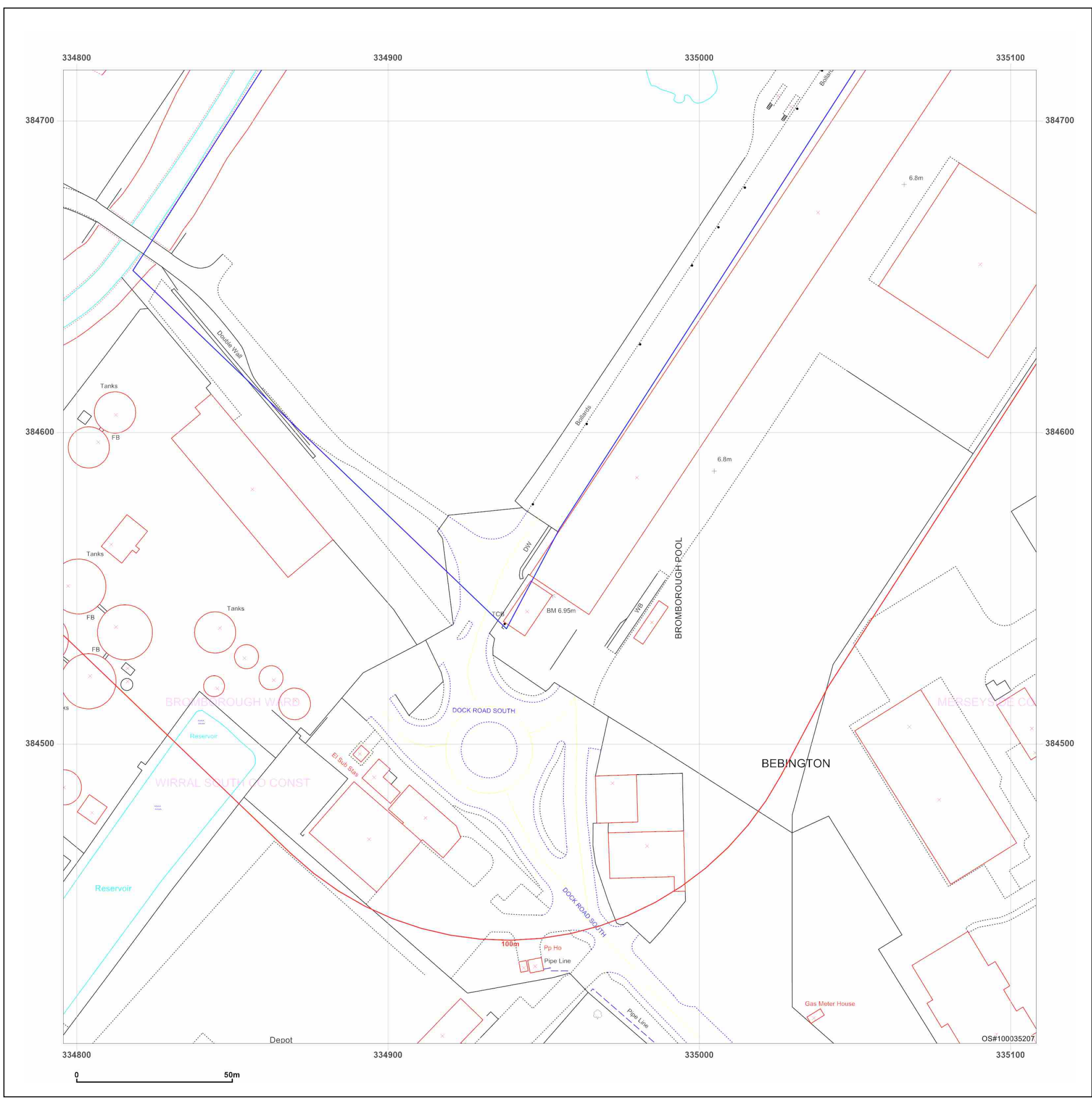


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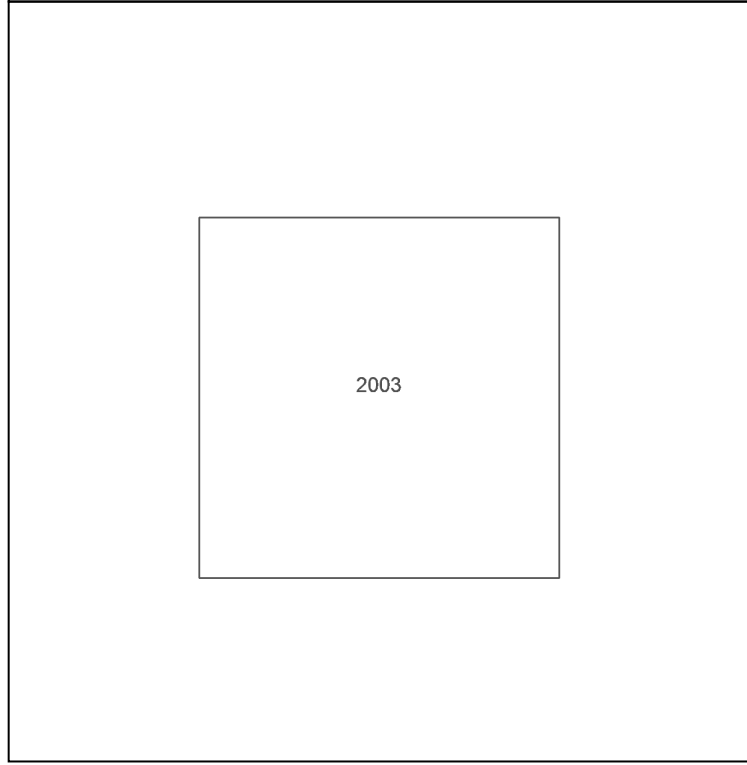
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**Map date:** 2003

**Scale:** 1:1,250

**Printed at:** 1:1,250

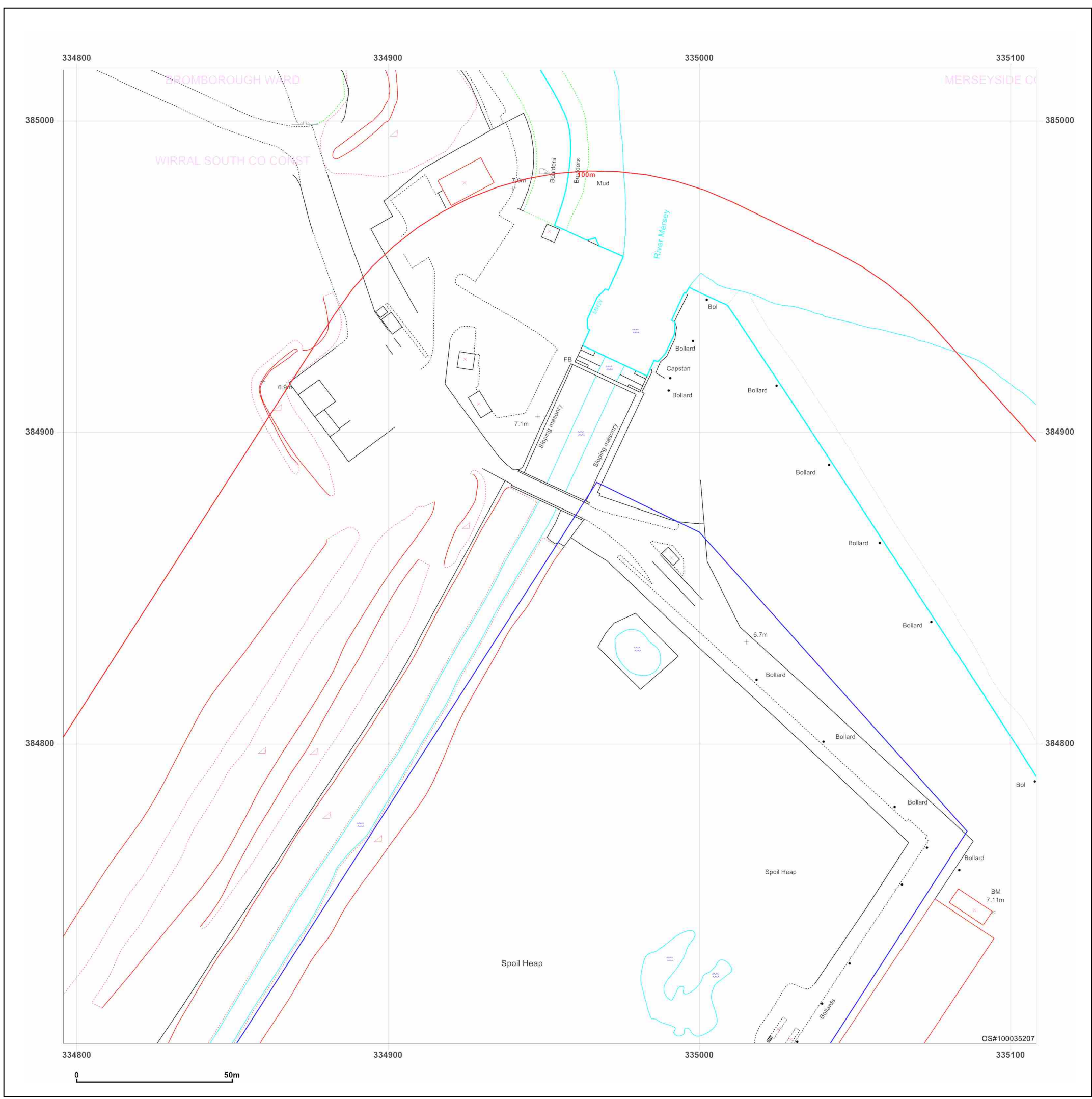


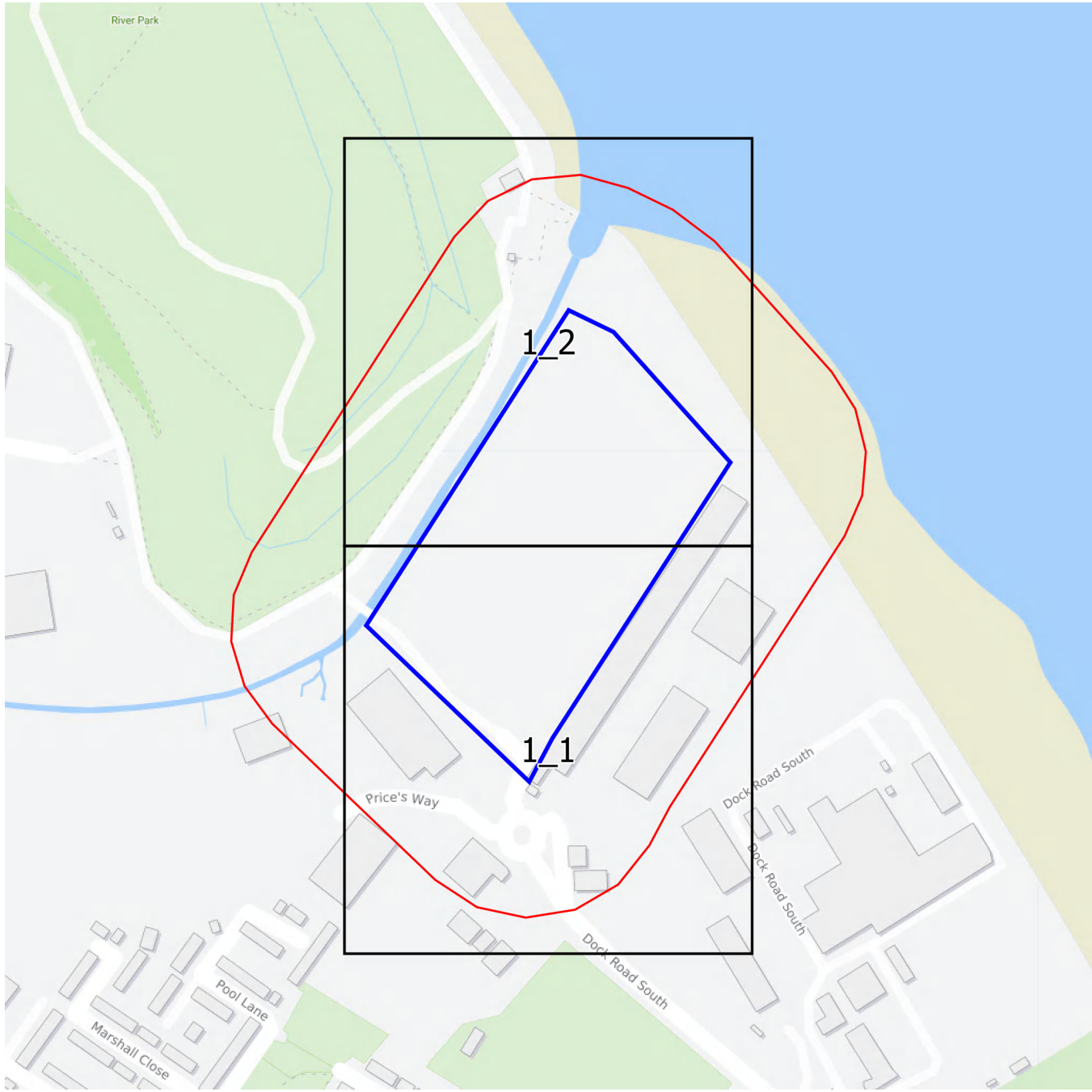
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