



ENVIRONMENTAL STATEMENT: 6.3 APPENDIX 17-1: PRELIMINARY RISK ASSESSMENT

DECARBONISATION

Cory Decarbonisation Project

PINS Reference: EN010128

March 2024

Revision A

TABLE OF CONTENTS

1. INTRODUCTION	3
1.2. Aims and Objectives.....	4
1.3. Scope of Works	4
1.4. Legislative Context and Guidance.....	5
1.5. Sources of Information	5
1.6. Limitations	6
1.7. Understanding the Risk	7
2. SUMMARY OF THE SITE AND SURROUNDING AREA	8
2.1. Site Location and Description.....	8
3. SITE AND REGIONAL HISTORY	10
3.1. Historical Maps and Photos.....	10
3.2. Previous Reports.....	17
4. ENVIRONMENTAL SETTING.....	39
4.1. Geology	39
4.2. Ground Stability Hazards.....	43
4.3. Hydrology	45
4.4. Hydrogeology	46
4.5. Nitrate Vulnerability Zone	49
4.6. Source Protection Zones.....	49
4.7. Designated Sites and Sensitive Land Uses.....	49
4.8. Radon.....	50
4.9. Preliminary Hydrogeological Model	51
5. REGULATORY INFORMATION AND CONSULTATION	52
5.1. Environmental Database Information	52
5.2. Local Authority.....	61
5.3. Environment Agency	62
5.4. Planning History	63
5.5. Unexploded Ordnance.....	71
6. RISK ASSESSMENT	72

6.1.	Preliminary Conceptual Site Model	72
6.2.	Potential Sources of Contamination	72
6.3.	Potential Pathways.....	76
6.4.	Potential Receptors	76
7.	CONCLUSIONS AND RECOMMENDATIONS	88
7.2.	Conclusions.....	88
7.3.	Recommendations	90
8.	REFERENCES.....	91

TABLES

Table 2-1:	Summary of Site Details	8
Table 3-1:	Site and Surrounding Area History.....	10
Table 3-2:	Geology Encountered in Wilkinson Associates and Terresearch Investigations	18
Table 3-3:	Ground Conditions Encountered during AERC 2003 investigation	21
Table 3-4:	Ground Conditions Encountered during RSA Geotechnics Ltd Investigation.....	22
Table 3-5:	Ground Conditions Encountered in Soil Mechanics 2007 Ground Investigation	23
Table 3-6:	Ground Conditions Encountered in WSP 2017 Ground Investigation	28
Table 3-7:	Depths of Groundwater Strikes Encountered in WSP 2017 Ground Investigation (GI)	29
Table 3-8:	Ground Model 1 Ground Conditions	33
Table 3-9:	Ground Model 2 Ground Conditions	34
Table 3-10:	GDG Groundwater Observations	35
Table 4-1:	Summary of Anticipated Geological Strata	39
Table 4-2:	Summary of BGS Boreholes	41
Table 4-3:	Ground Stability Hazards onsite (Groundsure, 2023)	44
Table 4-5:	Aquifer Designations Based on Anticipated Geology.....	46
Table 4-6:	Hydrogeological Data from BGS Historical Boreholes	47
Table 5-1:	Summary of Database Information	52
Table 5-2:	Water Quality Sampling Sites within 1km of the Site Boundary	62
Table 5-3:	Relevant Planning History.....	64
Table 6-1:	Potential Sources of Contamination.....	73

Table 6-2: Plausible Contaminant Linkages..... 78

ANNEXES

ANNEX A

FIGURES AND DRAWINGS

ANNEX B

LIMITATIONS

ANNEX C

CIRIA RISK DEFINITIONS

ANNEX D

SITE PHOTOGRAPHS

ANNEX E

GROUNDSURE REPORT

ANNEX F

SATELLITE IMAGERY

ANNEX G

HISTORICAL BOREHOLE LOGS

ANNEX H

FLOOD MAP FOR PLANNING

ANNEX I

RADON MAP

ANNEX J

UXO MAP

ANNEX K

CORRESPONDENCE

EXECUTIVE SUMMARY

This Phase 1 Preliminary Risk Assessment assesses pertinent environmental constraints to support the Applicant (Cory Environmental Holdings Limited) with the Cory Decarbonisation Project.

The Applicant currently operates energy recovery capacity from the Riverside Campus; located adjacent to the River Thames at Belvedere in the London Borough of Bexley (LBB). The Cory Decarbonisation Project is proposed to comprise the construction of a Carbon Capture Facility that will capture at least 95% of carbon emissions from Riverside 1 and Riverside 2 (the energy from waste facilities).

The Site is currently occupied by Riverside 1, Riverside 2 (at the time of writing, construction works for Riverside 2 are being undertaken), the Middleton Jetty, Munster Joinery, plus areas of open grassland, horse paddocks, public rights of way and highway, and a section of the River Thames.

Historically the Site has contained a range of potentially contaminative land uses including marshland; a manure works; a gunpowder store; Belvedere Mills; the Thames Fish, Guano and Oil works; a borax mill; and, allotment gardens. In the 1940s to 1950s, extensive redevelopment occurred onsite including the introduction of unspecified works, sand/gravel pits, electricity pylons and substation, drainage and a pontoon with two jetties. Activities within the Site changed again at the start of the 21st Century, including the closure of the borax mill. The construction of Riverside 1, including the Middleton Jetty, had commenced by 2008. In 2017, a warehouse building (present day Munster Joinery) including vehicle parking area was constructed in the south of the Site. The surrounding land is commercial and industrial in use.

Historical ground investigations have been undertaken to target various parcels of land at the Site. Some remediation work was completed by Knight Piesold in 2001, targeting the land where the former borax mill was located. However, data gaps exist for those areas where no ground investigation has been undertaken and unknown contamination could be present. Concentrations of metals, metalloids, organics and asbestos have been found at the Site in previous ground investigations at levels of concern for the land uses proposed in the Cory Decarbonisation Project.

Ground conditions encountered in the previous ground investigations and published geological data indicate that the geology across the Site is highly variable. Superficial deposits at the Site consist of Alluvium (Secondary Undifferentiated Aquifer), Head Deposits (Secondary Undifferentiated Aquifer) and Taplow Gravel Member (Secondary A aquifer). The bedrock is formed by the London Clay Formation (unproductive strata), Blackheath Member of the Harwich Formation, Lambeth Group and Thanet Formation (Secondary A Aquifers) that over lie the Upper Chalk (Principal Aquifer). Made/Infilled Ground is known to be present across parts of the Proposed Scheme that could potentially contain a broad range of contaminants.

Overall, the Proposed Scheme presents a **Moderate/Low** risk to controlled waters, a **Moderate to Low** risk to Site users and third party neighbours, a **Moderate to Low** risk to building structures and below ground services, and a **Moderate/Low** risk to ecological receptors. Construction of the Proposed Scheme will be undertaken in accordance with the **Outline CoCP (Document Reference 7.4)** and subsequent full CoCP(s) to control potential risks relating to ground contamination.

The risk to construction staff from asbestos contaminated soils is considered to be **Moderate**. Adherence to the Site's Construction Design and Management (CDM)/Health and Safety (H&S) procedures reduces the risk to **Low**.

The risk to Site users, third party neighbours and the River Thames reduces to **Low** with the implementation of the **Outline CoCP (Document Reference 7.4)** and subsequent full CoCP(s).

Based on findings in this Phase 1 Preliminary Risk Assessment, it is recommended that a ground investigation would be undertaken prior to the construction phase as secured by DCO requirement within the **Draft DCO (Document Reference 3.1)** and set out in the **Outline CoCP (Document Reference 7.4)**. As shown in **Figure 17-3: Connections between the Ground Conditions and Soils Mitigation Tasks and Design (Volume 1)**, this is likely to be led by geotechnical requirements but would include geo-environmental sampling of terrestrial soils, marine sediments, groundwater and surface water.

1. INTRODUCTION

- 1.1.1. WSP has been instructed by Cory Environmental Holdings Limited (hereafter referred to as the Applicant) to prepare a Phase 1 Preliminary Risk Assessment Report (PRA), for the Cory Decarbonisation Project, to be located at Norman Road, Belvedere in the London Borough of Bexley (LBB; National Grid Reference/NGR 549572, 180512).
- 1.1.2. The following figures are available in this Environmental Statement (ES):
- **Figure 1-1: Site Boundary Location Plan (Volume 2);** and
 - **Figure 1-2: Satellite Imagery of the Site Boundary Plan (Volume 2).**
- 1.1.3. The Applicant intends to construct and operate the Proposed Scheme to be linked with the River Thames. It comprises of the following key components, which are described below, and further detail is provided within Chapter 2: Site and Proposed Scheme Description (Volume 1):
- The Carbon Capture Facility (including its associated Supporting Plant and Ancillary Infrastructure): the construction of infrastructure to capture a minimum of 95% of carbon dioxide (CO₂) emissions from Riverside 1 and 95% of CO₂ emissions from Riverside 2 once operational, which is equivalent to approximately 1.3Mt CO₂ per year. The Carbon Capture Facility will be one of the largest carbon capture projects in the UK.
 - The Proposed Jetty: a new and dedicated export structure within the River Thames as required to export the CO₂ captured as part of the Carbon Capture Facility.
 - The Mitigation and Enhancement Area: land identified as part of the **Outline LaBARDS (Document Reference 7.9)** to provide improved access to open land, habitat mitigation, compensation and enhancement (including forming part of the drainage system and Biodiversity Net Gain delivery proposed for the Proposed Scheme) and planting. The Mitigation and Enhancement Area provides the opportunity to improve access to outdoor space and to extend the area managed as the Crossness LNR.
 - Temporary Construction Compounds: areas to be used during the construction phases for activities including, but not limited to office space, warehouses, workshops, open air storage and car parking, as shown on the **Works Plans (Document Reference 2.3)**. These include the core Temporary Construction Compound, the western Temporary Construction Compound and the Proposed Jetty Temporary Construction Compound.
 - Utilities Connections and Site Access Works: The undergrounding of utilities required for the Proposed Scheme in Norman Road and the creation of new, or the improvement of existing, access points to the Carbon Capture Facility from Norman Road.

1.1.4. Together, the Carbon Capture Facility (including its associated Supporting Plant and Ancillary Infrastructure), the Proposed Jetty, the Mitigation and Enhancement Area, the Temporary Construction Compounds and the Utilities Connections and Site Access Works are referred to as the 'Proposed Scheme'. The land upon which the Proposed Scheme is to be located is referred to as the 'Site' and the edge of this land referred to as the 'Site Boundary'. The Site Boundary represents the Order Limits for the Proposed Scheme as shown on the **Works Plans (Document Reference 2.3)**.

1.2. AIMS AND OBJECTIVES

1.2.1. The key objectives of this assessment are as follows:

- determine potential environmental risks, inform design of the Proposed Scheme and determine the requirement for any further ground investigations;
- develop a preliminary Conceptual Site Model (CSM) in order to identify potential ground contamination associated with the Site;
- evaluate the potential liabilities and constraints associated with the significant exposure of the identified receptors in the context of the Site's consented future planning use; and
- provide recommendations on the measures that could be adopted to address any potential liabilities or constraints.

1.3. SCOPE OF WORKS

1.3.1. In order to meet the above aims and objectives the following tasks have been carried out:

- a review of reports previously completed for the Site relating to contaminated land, ground investigations and remediation;
- a review of publicly available historic maps to identify former land uses and any potentially contaminative activities on and surrounding the Site;
- a review of relevant databases (e.g. Groundsure, British Geological Survey Data);
- contact with relevant regulators: Environment Agency and LBB;
- a review of relevant publicly available information relating to hydrological features, hydrogeology, neighbouring land uses, ecologically sensitive uses and geology in order to establish the environmental setting of the Site and ground conditions in the area;
- development of a preliminary CSM via the source-pathway-receptor contaminant linkage approach;
- an outline of the environmental risks and/or opportunities, with respect to ground, groundwater and ground gas conditions, which may potentially arise as liabilities or constraints associated with future use of the Site; and
- preparation of this Phase 1 PRA report.

1.4. LEGISLATIVE CONTEXT AND GUIDANCE

1.4.1. The assessment was undertaken in the legislative context of:

- Part 2A of The Environmental Protection Act 1990¹; and
- The National Planning Policy Framework 2023².

1.4.2. The following good practice and statutory guidance was considered, and the assessment was undertaken in general accordance with:

- Environment Agency 'Land Contamination: Risk Management (LCRM) guidance (April 2021³);
- BS 10175:2011+A2:2017 Investigation of Potentially Contaminated Sites. Code of Practice⁴; and
- CIRIA C552 'Contaminated Land Risk Assessment. A guide to good practice' (2001⁵).

1.5. SOURCES OF INFORMATION

1.5.1. The following relevant sources of information were reviewed to produce this report:

- Groundsure Report, presented as **Annex E**;
- British Geological Survey (BGS) Geology Online Viewer⁷;
- British Geological Survey (BGS) GeoIndex Onshore Online Viewer⁸;
- Coal Authority Interactive Map⁹;
- Flood Map for Planning website¹⁰;
- Multi Agency Geographic Information for the Countryside (MAGIC)¹¹;
- Public Health England, UK Maps of Radon¹²;
- London Borough of Bexley Council Planning Applications¹³;
- Zetica UXO Risk Maps¹⁴;
- Google Earth satellite imagery¹⁵;
- British Geological Survey (BGS)¹⁶;
- Online GeoIndex Onshore⁹¹;
 - Online Viewer – Hydrogeological Map of the UK, 1: 625,000¹⁸; and
- Environment Agency Water Quality Sampling Sites Map Viewer¹⁹;
- Previous Ground Investigations
- Wilkinson Associates; Report Contamination Investigation Greenham Site Waste to Energy Incineration Plant Belvedere for Cory Environmental Limited; ref.: i7-01-02; dated December 1992¹;
- Applied Environmental Research Centre Limited (AERC); Riverside Resource Recovery (Energy from Waste) Facility, Norman Road, Belvedere, Site Investigation and Remediation Proposals Report; ref.: C3477/R1384; dated September 2003²¹;

- RSA Geotechnics Ltd.; Ground Investigation at Norman Road, Belvedere, Kent Final Report, ref.: 10487/FINAL; dated February 2007²²;
- Soil Mechanics; Riverside Resource Recovery Facility, Belvedere, Kent Factual Report on Ground Investigation; ref.: A7007; dated April 2007²³;
- AERC; Letter presenting findings of Site investigation at Riverside Resource Recovery Facility, Norman Road, Belvedere; ref.: JRW/C34129/R2397; dated 14 August 2006⁵;
- AERC; Riverside Resource Recovery (Energy from Waste) Facility, Norman Road, Belvedere, Contaminated Land Remediation Method Statement; ref.: C34129/R2489; dated May 2007²⁵;
- WSP; Riverside Data Centre Ground Investigation Report Riverside Resource Recovery Ltd.; ref.: 70031031; dated August 2017²⁶;
- Gavin & Doherty Geosolutions (UK) Ltd. (GDG); Geotechnical Interpretative Report & Contaminated Land Report; ref.: 21083-R-002-02; dated July 2021²⁷; and
- TerraConsult; Riverside EfW; ref.: 3765R001-2; dated July 2018²⁸.

1.5.2. This report contains British Geological Survey materials ©NERC 2019 and Environment Agency information ©Environment Agency and database right.

1.6. LIMITATIONS

- 1.6.1. This report is addressed to and may be relied upon by Cory Environmental Holdings Limited ('The Applicant') and may not be relied upon or transferred to any other parties without the express written agreement of WSP.
- 1.6.2. This report should be read and used in full. No responsibility will be accepted where this report is used, either in its entirety or in part, by any other party. WSP cannot be held liable for third party information. Full details of the limitations are provided as **Annex B**.

1.7. UNDERSTANDING THE RISK

- 1.7.1. It is important to recognise that any risks identified during a preliminary risk assessment such as that presented below are perceived risks based on the recorded information reviewed. A more detailed assessment of the actual risks can only be assessed following intrusive investigations. The preliminary assessments presented herein are qualitative, based on professional judgements following review of the available data and within the context of the existing/proposed use. Those risk categories presented (Very Low, Low, Low to Moderate, Moderate, High, Very High) follow guidance presented in CIRIA C552⁵. CIRIA C552⁵ states that risk levels should be based both on an understanding of both the probability (likelihood) of a risk occurring and the magnitude of the potential consequence (severity) of a risk.
- 1.7.2. CIRIA C552⁵ defines four levels of probability and four levels of severity with relation to contaminated land, as presented in **Annex C**.

2. SUMMARY OF THE SITE AND SURROUNDING AREA

2.1. SITE LOCATION AND DESCRIPTION

- 2.1.1. The Site description and location details are summarised in **Table 2-1** below. A Site walkover was conducted by a WSP engineer on 08 February 2023 and pertinent information is presented here. Selected photographs from the walkover are in **Annex D**.
- 2.1.2. Further information obtained from a review of Ordnance Survey (OS) mapping, online aerial photography and relevant regulatory information obtained from the Groundsure Report is also summarised below, where applicable. The Groundsure Report is included in **Annex E**. The Proposed Scheme’s location and layout plans can be seen in **Figure 1: Site Boundary Location Plan** in **Annex A**.

Table 2-1: Summary of Site Details

Detail	Comment
Name and Address of Site	Cory Decarbonisation Project, Belvedere, London, DA17 6JY
Location	The Proposed Scheme is to be located on the south bank of the River Thames in the vicinity of Riverside 1 and Riverside 2.
National Grid Reference	TQ 549572 180512
Area	Approximately 77ha
Site Description and Current Site Use	<p>The Site comprises both terrestrial and marine areas. Land at the Site includes Riverside 1, Riverside 2 (under construction), Munster Joinery, open grassland, horse paddocks, Public Right of Way (PRoW), and Norman Road.</p> <p>The marine part of the Site includes part of the River Thames, the Belvedere Power Station Jetty (disused) and Middleton Jetty.</p>

Detail	Comment
<p>Surrounding land use and boundaries</p>	<ul style="list-style-type: none"> • north: The River Thames with industrial and commercial development beyond; • east: Industrial and commercial development with the River Thames beyond; • south: Industrial and commercial development with residential housing beyond; and • west: coastal grassland, Crossness LNR and Crossness Sewage Treatment Works.
<p>Ground cover and Topography</p>	<p>Most of the Site’s ground cover is soft standing grass land with low level shrubs and some areas of thick brambles.</p> <p>Hardstanding present in construction areas were noted to be in good condition with some large breaks between concrete platforms.</p> <p>There are several water courses across Site, including drainage ditches, small rivers and a small pond. Small drainage ditches were generally stagnant and overgrown. Ditches near Riverside 1 and Riverside 2 are exposed to high levels of surface water run-off.</p> <p>The topography of the Site generally lies between 0 to 5m AOD. The banks along the River Thames increase in height from approximately 2m AOD to approximately 7m AOD approaching the river.</p> <p>A detailed topographic survey of the Site has been conducted and is presented in Annex A.</p>
<p>Visual and olfactory evidence of contamination</p>	<p>The following evidence of potential contamination was noted during the Site walkover:</p> <ul style="list-style-type: none"> • some hydrocarbon staining on the concrete in the Borax North; and • WSP was informed that positively identified asbestos was present on the construction sites and was being appropriately segregated, tested and managed. <p>The electrical substation onsite was noted to be in very good condition with no evidence of potential contamination.</p>

3. SITE AND REGIONAL HISTORY

3.1. HISTORICAL MAPS AND PHOTOS

- 3.1.1. Historical maps and aerial photographs were obtained via a Groundsure Report (presented in **Annex E**) and have been reviewed to identify potentially significant contaminative activities that have occurred at the Site and within 500m of the Site Boundary.
- 3.1.2. Additional aerial satellite imagery has been obtained via Google Earth. The reviewed Google Earth satellite images are enclosed in **Annex F**.
- 3.1.3. A summary of the onsite and offsite features that are relevant to contaminated land are presented in **Table 3-1**. Where considered pertinent, features outwards of 500m of the Site Boundary have been noted.

Table 3-1: Site and Surrounding Area History

Historical Map (Date and Scale)/Aerial Photograph (Date)/Satellite Imagery (Date)	Onsite Features	Offsite Features
1864 (1:2,500) 1865 (1:2,500) 1866-1869 (1:10,560) 1867 (1:2,500)	The Site mainly comprises agricultural fields. A manure works is located in the area of the current Riverside 1. Three piers are labelled along the south bank of the River Thames. Powder magazines are located in the far east and far west of the Site. Marshland is present in the far west of the Site.	The Erith Marshes are labelled to the southwest. Marshland is located along the south bank of the River Thames and approximately 350m to the west. Belvedere Railway station is located 630m to the south.
1888 (1:10,560)	Development has occurred onsite with the manure works being replaced by Belvedere Mills. The Thames Fish, Guano and Oil Works is located	A building labelled 'Orient House' is located 315m to the south of Belvedere Mills. A candle manufacturing factory is located on the north side of the River

Historical Map (Date and Scale)/Aerial Photograph (Date)/Satellite Imagery (Date)	Onsite Features	Offsite Features
	to the west of Belvedere Mills.	Thames, approximately 430m to the north of the Site. A gasometer is located 610m to the west.
1895 (1:10,560) 1895-1899 (1:10,560) 1897 (1:2,500)	<p>The 1897 map shows three cranes labelled onsite along the bank of the Thames.</p> <p>The Belvedere Mills is labelled as being a disused Bovril Mill.</p>	<p>Crabtree Farm is located 500m to the east.</p> <p>Residential development is occurring outwards of 450m to the south.</p> <p>A cement works and associated mineral extraction activities are located 500m to the northeast.</p> <p>A chemical works is located 620m to the northeast.</p> <p>Industrial development is occurring outwards of 750m to the east (at present day Belvedere Industrial Estate) where an oil works and; bitumen, telegraph and waterproof works are located.</p>
1907 (1:10,560) 1909 (1:2,500)	<p>The 1909 map shows:</p> <ul style="list-style-type: none"> • allotment gardens onsite to the southwest of Belvedere Mills; and • Belvedere Mills is labelled to be a Borax Mill. 	<p>The 1907 map shows:</p> <ul style="list-style-type: none"> • residential development has expanded to within 200m to the south; • industrial development 750m to the east has expanded and the bitumen, telegraph and waterproof works

Historical Map (Date and Scale)/Aerial Photograph (Date)/Satellite Imagery (Date)	Onsite Features	Offsite Features
		<p>is now labelled to be a cable construction works; and</p> <ul style="list-style-type: none"> a tramway is located 570m to the southeast within the above industrial development.
<p>1915 (1:10,560) 1916-1920 (1:2,500) 1918-1921(1:10,560) 1920 (1:2,500) 1921 (1:10,560) 1931 (1:10,560) 1933 (1:2,500)</p>	<p>No significant changes.</p>	<p>Shooting grounds are located 340m to the north (Hornchurch Shoot) and 360m to the northeast (Rainham Shoot). A tank is located 405m to the northeast. Mineral extraction and the cement works appear to have ceased as the works is now labelled 'Rainham Caves'.</p>
<p>1938 (1:10,560) 1939 (1:2,500) 1940 (1:2,500)</p>	<p>No significant changes.</p>	<p>A large building (later labelled a motor cars manufacturing factory in the 1948-1950 map) has been constructed 400m to the north. Two jetties have been constructed 260m to the north and 290m to the north. Extensive residential development has continued to the south and southeast. Features labelled include football</p>

Historical Map (Date and Scale)/Aerial Photograph (Date)/Satellite Imagery (Date)	Onsite Features	Offsite Features
		<p>grounds and allotment gardens.</p> <p>Industrial development has continued to the southeast at Belvedere Industrial Estate.</p>
<p>1948-1950 (1:10,560)</p> <p>1951 (1:10,560)</p> <p>1955-1958 (1:10,560)</p> <p>1957 (1:1,250)</p> <p>1957-1958 (1:2,500)</p> <p>1957-1959 (1:1,250)</p> <p>1957-1962 (1:1,250)</p> <p>1958 (1:2,500)</p> <p>1958 (1:1,250)</p> <p>1958-1959 (1:2,500)</p> <p>1959-1964 (1:1,250)</p> <p>1963 (1:1,250)</p> <p>1963-1964 (1:1,250)</p> <p>1963-1968 (1:1,250)</p> <p>1964 (1:1,250)</p> <p>1964-1966 (1:2,500)</p> <p>1966 (1:2,500)</p> <p>1966-1969 (1:10,560)</p> <p>1966-1970 (1:2,500)</p> <p>1969 (1:1,250)</p>	<p>Maps from 1958 show a depot labelled onsite at the Former Thames Fish, Guano and Oil Works.</p> <p>Maps from 1966 show:</p> <ul style="list-style-type: none"> • extensive development has occurred onsite; • unspecified works are located in Creekside/Gannon land, to the west of present day Norman Road; • four parallel electricity lines with electricity pylons run from the unspecified works across the Site towards the southwest; • two sand/gravel pits are located to the north of the unspecified works; • drains are labelled surrounding the pits and extending offsite towards the west; 	<p>Development has occurred directly southeast of the Site with unspecified works labelled 250m to the southeast.</p> <p>Maps from 1958 shows a sand/gravel pit is marked 280m to the southeast.</p> <p>Maps from 1966 show:</p> <ul style="list-style-type: none"> • unspecified works are located 20m to the southeast. This works site includes two chimneys located to the southeast; • an unspecified depot is located 200m to the south; • sewage works (present day Crossness Sewage Works) are located 370m to the west. The sewage works site includes numerous sewage tanks; and • an excavation pit is located 120m to the east.

Historical Map (Date and Scale)/Aerial Photograph (Date)/Satellite Imagery (Date)	Onsite Features	Offsite Features
	<ul style="list-style-type: none"> • a drain runs north-south along the west of the works; and • a pontoon, and two jetties have been constructed, including the present day Middleton Jetty. 	
<p>1970 (1:2,500) 1970-1973 (1:1,250) 1970-1975 (1:1,250) 1973-1974 (1:10,000) 1973-1975 (1:1,250) 1973-1976 (1:1,250) 1974-1975 (1:1,250) 1975 (1:1,250) 1976 (1:1,250)</p>	<p>The 1973-1974 map shows a drain running across the south of the Site. The drain is connected to drains associated with the works and surrounding the sand/gravel pits.</p>	<p>The 1973-1974 map shows:</p> <ul style="list-style-type: none"> • an unspecified depot is located 230m to the south; and • industrial development has continued to the southeast at Belvedere Industrial estate.
<p>1982-1983 (1:1,250) 1982-1985 (1:1,250) 1983-1984 (1:1,250) 1983-1985 (1:10,000) 1984 (1:1,250) 1985-1990 (1:1,250) 1990-1992 (1:1,250) 1991 (1:1,250) 1991-1992 (1:1,250) 1992 (1:1,250) 1992-1995 (1:10,000)</p>	<p>No significant changes.</p>	<p>The 1983-1984 map shows sludge lagoons associated with the sewage works are located 160m to the west.</p> <p>The 1983-1985 map shows:</p> <ul style="list-style-type: none"> • Eastern Way Road has been constructed along the Site's southern boundary; • beyond Eastern Way, further industrial development has occurred where numerous works, warehouses and factory are labelled;

Historical Map (Date and Scale)/Aerial Photograph (Date)/Satellite Imagery (Date)	Onsite Features	Offsite Features
		<ul style="list-style-type: none"> • a pumping station is located 136m to the south; • a gasholder station is located 530m to the south; and • horse roundabout has been constructed 190m to the southeast. <p>The 1985-1990 map shows a tank, associated with unspecified works, is located 375m to the southeast.</p>
<p>06/09/1999 2001 (1:10,000) 2003 (1:10,000) October 2003 November 2003 December 2003 29/08/2005 December 2005 December 2006</p>	<p>Activity appears to have ceased at Belvedere Mill/ the Borax Mill.</p> <p>The pits in the centre of the Site appear to have been infilled and left to develop as grassland.</p> <p>Depots are labelled in the north of the Site.</p> <p>An electricity substation is located in the south of the Site at the unspecified works to the west of Norman Road.</p> <p>The 2003 map shows a tank is located in the north of the Site.</p>	<p>The 2003 map shows:</p> <ul style="list-style-type: none"> • tanks are located 20m to the east and 260m to the south; • electricity substations are located 25m to the east, 35m to the east and 170m to the south; and • buildings that are part of the Crossness Sewage Treatment Works are present to the west of the Site.

Historical Map (Date and Scale)/Aerial Photograph (Date)/Satellite Imagery (Date)	Onsite Features	Offsite Features
<p>2010 (1:10,000)</p>	<p>The 2010 maps show:</p> <ul style="list-style-type: none"> • the parcels of land located at the two former pits in the centre of the Site were used as a construction compound; • the depot building is no longer present in the north of the Site; • the construction of Riverside 1 has commenced; • Proposed Jetty has been constructed; and • excavation appears to have been undertaken to the southwest of the unspecified works. <p>The 2010 map shows:</p> <ul style="list-style-type: none"> • construction of Riverside 1 has been completed and the facility appears operational; and • the unspecified works in the south of the Site have been demolished. <p>A pond is located to the west of this areas where excavation was visible in the 2010 images.</p>	<p>Extensive development of the industrial estate has continued to the east of the Site.</p>

Historical Map (Date and Scale)/Aerial Photograph (Date)/Satellite Imagery (Date)	Onsite Features	Offsite Features
20/04/2013 July 2013 July 2014 June 2015	The location of the demolished unspecified works in the south of the Site has been cleared and levelled. The parcels of land in the centre of the Site have been vacated by the construction activities.	Development of the industrial estate has continued to the east of the Site.
April 2017 May 2018 June 2019 26/09/2019 March 2020 February 2021 17/07/2021 2023 (1:10,000)	A warehouse building (present day Munster Joinery) including vehicle parking area has been constructed at the site of the former unspecified works in the south of the Site.	Development of the industrial estate has continued to the east of the Site.

3.2. PREVIOUS REPORTS

3.2.1. The approximate site boundaries of the previous ground investigations relative to the Site Boundary are presented in **Figure 2** in **Annex A**.

WILKINSON ASSOCIATES, 1992

3.2.2. Wilkinson Associates carried out three ground investigations at the Site of the former Borax works between August and December 1992. The ground investigations consisted in total of 12 trial pits, six boreholes and six Drive In Sampler (DIS) locations.

3.2.3. The report includes reference to a historical ground investigation that was completed by Terresearch Foundation Engineers during September 1989. The geology encountered during the Wilkinson Associates and Terresearch investigations is summarised in **Table 3-2**.

Table 3-2: Geology Encountered in Wilkinson Associates and Terresearch Investigations

Stratum	Depth to Top of Strata (m bgl)	Thickness (m)	Elevation to Top of Strata (m aod)
Topsoil	0.00	0.25 to 0.30	3.80
Made Ground	0.00 to 0.30	0.50 to 3.90	1.90 to 3.55
Alluvium	0.50 to 4.20	8.05 to 11.20	-0.55 to 1.50
Taplow Gravel Member	9.60 to 12.70	2.80 to 4.70	-7.70 to -10.50
London Clay	13.70 to 17.00	5.10 to 8.40	-11.80 to -14.45
Blackheath Member of the Harwich Formation	20.90 to 24.60	2.10 to 4.20	-19.00 to -21.40
Lambeth Group	24.20 to 25.10	>4.90	-22.15 to -23.20

- 3.2.4. In total, 44 solid samples and seven groundwater samples were submitted for analyses for a range of contaminants. To assess the contamination Wilkinson Associates used trigger concentrations produced in the Department of the Environment's Interdepartmental Committee on the Redevelopment of Contaminated Land (ICRL) Guidance Notes 59/83, a list of degrees of contamination for the most commonly found contaminants produced by the Greater London Council (GLC), and guidelines produced by the government of the Netherlands.
- 3.2.5. Two trigger levels included within ICRL 59/83 are 1) Domestic gardens, allotments, and 2) Parks, playing fields, open spaces. The categories of contamination produced by the GLC were: Typical values for uncontaminated soils, Slight Contamination, Moderate Contamination, Heavy Contamination, and Unusually Heavy Contamination. The guidelines produced by the government of the Netherlands to assess the impact of contamination were set out with trigger levels of Level A) Reference value above which there is demonstratable pollution, Level B) Assessment value above which further investigation should be undertaken to determine the extent, nature and concentration of contamination and appraise potential risk to man or the environment, and Level C) Maximum permissible contamination value which if exceeded should generally lead to treatment.
- 3.2.6. Of the solid samples: four are described as white powder; two comprised black ashy materials; and one sample was composed of white crystals. The remaining samples were soils.
- 3.2.7. Using ICRL 59/83, Wilkinson Associates found concentrations of contaminants equalling or exceeding the lower threshold trigger concentration for domestic gardens and allotments in nine samples for arsenic, three samples for cadmium, fourteen samples for lead and fourteen samples for mercury.

- 3.2.8. Concentrations of contaminants equalling or exceeding the upper threshold trigger concentration for parks, playing fields and open space, or the single threshold trigger concentrations for anhydrite uses where plants are to be grown were found in 27 samples for arsenic, six samples for copper, one sample for lead, two samples for nickel, 21 samples for zinc and four samples for boron.
- 3.2.9. Using the GLC degrees of contamination Wilkinson Associates found metal contamination in the solid samples ranging from slight to unusually heavy for arsenic, slight to heavy for lead, slight to heavy for mercury, slight to heavy for zinc, slight to moderate for cadmium, and slight to unusually heavy for boron.
- 3.2.10. Arsenic levels of contamination were above Netherlands trigger level C in five trial pit samples, lead contamination exceeded level C in four trial pit samples, and zinc contamination exceeded level C in one trial pit sample.
- 3.2.11. All solid samples were identified to contain water-soluble boron. Boron concentrations approximating to pure Borax were detected in one sample.
- 3.2.12. Within the groundwater samples, levels of arsenic, boron, cadmium, chromium, copper, lead, nickel and zinc were identified to “generally” exceed the level C values from the Netherlands code. Wilkinson Associates concluded that overall, the groundwater at the Site was significantly contaminated.
- 3.2.13. Contamination from toluene was classified as slight contamination in “some” solid samples and as contaminated in one sample.

AERC, 2003

- 3.2.14. The AERC reports were prepared for Riverside Resource Recovery Ltd (RRRL) for the development of Riverside 1. The AERC site was centred on NGR: TQ 49600 80600 and described in the 2003 report as covering an area totalling 21.95 ha, which is made up of the following components:
- area within the River Thames 12.0 ha;
 - area of proposed EfW facility (Riverside 1) site 5.93 ha;
 - former Borax Residue Storage Area 2.58 ha; and
 - Norman Road and junction with Picardy Manorway 1.44 ha.
- 3.2.15. AERC referred to the area of the proposed EfW facility (Riverside 1) as the ‘main development site’ and the former Borax Residue Storage Area as the ‘southern parcel of land’.

Historical land use

- 3.2.16. The AERC 2003 report includes a review of historical maps for the Site which does not significantly differ to the review of the Groundsure historical maps undertaken in **Section 3.1**. The following additional historical information was obtained by AERC from a review prepared by Environmental Resources Management (ERM) in 1995:

- Borate refining on the ‘main development site’ commenced in 1896. Early processes at the Site may have included borate refining, using crude calcium borate, and Epsom Salt manufacture, using dolomite and sulphuric acid. A laboratory and calcium carbide store are believed to have been included in the Works.
- In December 1988 the manufacture of Borax-related chemicals ceased and in 1990–1991 Cory Environmental Limited (CEL) purchased the site. Between 1994–1996 CEL commissioned the decontamination and demolition of all buildings to the concrete bases, except one situated in the western sector of the ‘main development site’ which was used for the storage of building materials.
- It is understood that the ‘southern parcel of land’ had been used for the deposition of waste products arising from the Borax-related chemical plant located on the ‘main development site’. Waste has been deposited from 1906 until the 1950s, resulting in heaps of approximately 8m in height and primarily comprising a slurry consisting of gypsum, clay, calcium borate and boiler ash.
- A year after the closure of the Borax-related chemical plant, the ‘southern parcel of land’ was remediated by removing all waste materials down to the adjacent ground level. This involved the excavation of approximately 80,000m³ of material. It is estimated that approximately 38,500m³ of waste remained below the existing ground level as a result of the consolidation and settlement of the underlying alluvial soils, and the Site was subjected to remediation in 2001 by Knight Piesold.

3.2.17. AERC reported that at least seven ground investigations had been carried out across the AERC site, four of which were carried out on various sections of the ‘main development site’ and three of which were carried out on the ‘southern parcel of land’.

3.2.18. The data show that the principal potential contaminants identified in those ground investigations were arsenic, lead, water soluble boron, sulphate and Toluene Extractable Matter (TEM). Other determinands identified at “elevated” concentrations are cadmium, mercury, copper, nickel and zinc. AERC concluded that there was some indication from the data that the contaminants are associated with the Made Ground and that, where data are available, they decrease in concentration with depth.

3.2.19. On the basis of previous ground investigations and potential contamination identified, AERC conducted a ground investigation between 23 July 2003 and 15 September 2003 comprising 50 trial pits and ten boreholes across their site.

Ground conditions

3.2.20. The results of the geology encountered within the AERC 2003 ground investigation are summarised in **Table 3-3** and follow the sequence of Made Ground, Alluvium, Taplow Gravel Member, London Clay present across all exploratory holes. AERC also report that concrete was present over most of their site, but the thickness of the concrete was not recorded.

Table 3-3: Ground Conditions Encountered during AERC 2003 investigation

Stratum		Thickness (m)	Description
Artificial	Made Ground	0.60 to 4.00	Silty clays containing brick, concrete and chalk fill.
Superficial	Alluvium	Average 4.25 (range not reported)	Soft to firm green-grey silty clay with occasional peat lenses.
	Taplow Gravel Member	5.30 to 12.05	Sandy gravels and gravelly sand.
Bedrock	London Clay Formation	Not confirmed	Stiff grey-brown silty clay.

3.2.21. Groundwater was encountered at depths between 0.20m and 4.90m within the Made Ground, Alluvium and Taplow Gravel Member.

AERC, 2006

3.2.22. Following the ground investigation undertaken between July 2003–September 2003, AERC conducted an additional ground investigation in July 2006 to assess the ground conditions in the northeastern sector of the AERC 2003 area.

3.2.23. The ground conditions in the northeastern sector were observed to comprise a surface cover of concrete or compacted gravel overlying a sequence of Made Ground overlying natural strata. The Made Ground was present to depths of 0.70 – 2.20m bgl and the natural strata was proven to a maximum depth of 3.00m bgl.

3.2.24. Twelve soil samples were submitted for laboratory analysis. The results of the analyses indicated that “elevated” levels of TPH, lead, vanadium, water soluble sulphate, and water-soluble boron were present across the AERC 2003 area. However, there are no exceedances of the WSP GAC for a commercial end land use.

RSA GEOTECHNICS, 2007

3.2.25. RSA Geotechnics Limited conducted a ground investigation on behalf of Riverside Resource Recovery Limited. A site location plan is not available in the RSA report.

Table 3-4: Ground Conditions Encountered during RSA Geotechnics Ltd Investigation

Stratum		Typical Description(s) as Recorded	Depth to Base of Strata in m bgl
Artificial	Made Ground	<ul style="list-style-type: none"> flexible Surfacing; brick rubble; firm mottled grey and brown sandy clay with some subangular to subrounded fine and medium flint brick, concrete and occasional ash; 	0.60 to 2.20
Superficial	Alluvium	<ul style="list-style-type: none"> soft mottled dark grey brown slightly sandy silty clay with occasional pockets of organic material; and very soft (plastic) dark brown fibrous peat. 	8.60 to 10.80
	Taplow Gravel Member	Medium dense grey brown slightly silty very sandy subangular to subrounded fine to coarse flint gravel.	Not proven (boreholes terminated at maximum of 15.00m bgl).

- 3.2.26. Groundwater was encountered within the Alluvium and Taplow Gravel Member between depths of 5.30m and 9.80m bgl.
- 3.2.27. Three rounds of ground gas monitoring were undertaken following the ground investigation. Results of the gas monitoring showed that measurable maximum concentrations of carbon dioxide and methane were 7.6% v/v and 10.7% v/v, respectively.
- 3.2.28. Ten soil samples obtained from the window sample holes were submitted for chemical contamination analysis. Eight of the samples were obtained from the Made Ground and two from the Alluvium.
- 3.2.29. The laboratory certificates for the analyses are included in the report. When compared to WSP Generic Assessment Criteria (GAC), there are no exceedances of the GAC for a commercial end land use. RSA identified a Total Petroleum Hydrocarbons (TPHs) hotspot within borehole WS2 at a sample depth of 0.30m bgl where a concentration of 144.4mg/kg was detected. It was not considered that remediation of the TPHs was necessary for the works on Norman Road.

SOIL MECHANICS, 2007

- 3.2.30. Soil Mechanics (SM) completed over water and land-based ground investigation along a section of the River Thames during January 2007 which included providing geo-environmental information on the ground conditions for the design of the foundations for the construction of the Middleton Jetty.
- 3.2.31. The ground investigation comprised the advancement of five cable percussion boreholes to a maximum depth of 35.82m bgl and six cable percussion boreholes extended by rotary core drilling to a maximum depth of 35.35m bgl.

Table 3-5: Ground Conditions Encountered in Soil Mechanics 2007 Ground Investigation

Stratum		Typical Description as Recorded	Depth to Base of Strata in m bgl
Artificial	Made Ground	Typically comprised brown slightly sandy gravelly clay with rare clinker, tile, plastic and metal. Gravel comprised brick, concrete and flint.	1.50
Superficial	Alluvium (cohesive)	Black, brown slightly sandy locally sandy slightly gravelly SILT. Gravel is subangular fine of flint. (Strong oily odour BH101/ 1.50m to 1.70m bgl). Plastic dark brown clayey pseudofibrous PEAT (0.70m to 1.70m; 1.70m to 3.00m; 1.80m to 2.70m; 2.7m to 4.0m; 6.0m to 7.50m bgl).	3.00 to 11.30
	Alluvium (granular)	Loose, grey silty fine to medium SAND, locally grading to very sandy silt.	2.10 to 10.5
	Taplow Gravel Member (Reported	Dense locally very dense, grey, brown slightly silty slightly sandy to sandy subangular to rounded, fine	4.80 to 15.00

Stratum		Typical Description as Recorded	Depth to Base of Strata in m bgl
	as Shepperton Gravel Member)	to coarse GRAVEL of flint, with rare subrounded cobbles.	
Bedrock	London Clay Formation	Stiff to very stiff, fissured dark brown slightly sandy to sandy CLAY.	17.80 to 24.50
	Harwich Formation	Very dense, black slightly silty slightly sandy rounded fine to coarse GRAVEL of flint.	20.60 to 28.50
	Lambeth Group	Very stiff, grey sandy CLAY with frequent shells/shell fragments.	32.30 to >35.82
	Thanet Sand Formation	Very dense, brown/grey slightly to silty fine to medium SAND.	>35.19

Environmental Sample Analysis

- 3.2.32. Eleven soil samples were analysed for TPH, Polycyclic Aromatic Hydrocarbons (PAHs), Polychlorinated Biphenyls (PCBs), Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) and Methyl tert-Butyl Ether (MTBE)^a and Organotins. Three samples were analysed for a suite of metals, metalloids, inorganics and phenol.
- 3.2.33. A maximum benzo(a)pyrene concentration of 2.25mg/kg was reported for BH107/ 1.50m bgl. This concentration falls below the WSP GAC for benzo(a)pyrene based on a commercial land use.
- 3.2.34. All PCBs were reported below the laboratory's limit of detection (LoD) with exception to soil sample BH102 at 2.00m bgl, which reported a total concentration of 310.7ug/kg (highest proportion 94.5ug/kg BCP28) and BH101 at 10.50m bgl, which reported a

^a WSP has not assessed the TPH, BTEX and MTBE concentrations against current GAC due to the laboratory's reporting method.

concentration of 6.6ug/kg for PCB52. The concentrations fall below the WSP GAC for PCBs based on a commercial land use.

3.2.35. All organotins were reported below the LoD.

3.2.36. Twelve soil samples were scheduled for leachate testing including a suite of metals, metalloids, inorganics and phenol. Leachate results for barium, nickel and arsenic were reported above the controlled waters generic assessment criteria; however, it is noted that this is a very conservative comparison.

AERC, 2007

3.2.37. AERC was commissioned by RRRL to prepare a Remediation Strategy and Method Statement following its previous ground investigations.

3.2.38. The requirement to remediate was identified to:

- reduce the potential for the leaching of metals, particularly arsenic, into surface water features; and
- provide a 'clean' seed bed for areas of planting.

3.2.39. The areas defined as requiring remediation within the 'main development site' were:

- Zone 1 – the wetland habitat; and
- Zone 2 – areas of landscaping.

3.2.40. Fourteen 'hotspots' were also identified as requiring remediation across the Site where hydrocarbons (TPHs) were present at concentrations in excess of 1000mg/kg.

3.2.41. Works required to complete the remediation were outlined in the following stages:

- excavation of contaminated materials from Zone 1, Zone 2 and the 14 No. TPH 'hotspots';
- disposal of contaminated material offsite or treatment onsite; and
- controlled backfilling of excavated areas.

3.2.42. The AERC 2007 report states that upon completion of each phase of the remediation works, it was proposed that an appointed environmental consultant would prepare a validation report. These reports are not available to WSP for review, and it is unconfirmed whether the remediation works were undertaken.

WSP, 2017

3.2.43. WSP undertook ground investigation on two parcels of land (Borax North and South) to the west of Norman Road which are known to have been used for storage of solid borax waste and boiler ash produced from the historical Borax manufacture.

Review of Previous Reports

3.2.44. Excluding those already reviewed above, the WSP 2017 report included a review of the following previous reports:

- Knight Piesold; Former Waste Heaps Site Remediation Belvedere, Kent – Construction Completion Report; ref.: 11396\R15014\ABD; dated August 2001;
 - Scott Wilson; Former Waste Heaps Site Remediation Belvedere, Kent - Post Completion Monitoring Report; ref.: D844435/OJR/ABD; dated January 2003; and
 - AMEC; Former borax storage area Norman Road, Belvedere, Report on Ground Investigation; ref.: C34129/R3332; dated January 2009.
- 3.2.45. Knight Piesold was commissioned to investigate the Site and to manage the removal of waste materials that remained after the initial remediation works that occurred a year after the closure of the Borax plant. Works comprised the excavation of 37,199m³ of waste materials to an approximate average depth of 2.00m below original ground level. It is reported that fortnightly sampling was carried out during the remediation works and did not identify any elevated concentrations of contaminants as a result of the works. However, elevated concentrations of boron were recorded in groundwater within six boreholes surrounding the Site. Concentrations of boron within the River Thames, determined from surface water samples, were between 2000µg/l and 8000µg/l.
- 3.2.46. Scott Wilson (formerly Knight Piesold) completed a post completion monitoring report following the remediation activities undertaken by Knight Piesold. Monitoring was undertaken at the following locations:
- surface water locations WS1 (downstream) and WS2 (upstream) to assess the quality of surface water run-off from the site;
 - surface water location WS3 to assess water quality in a ditch to the north of the site;
 - surface water location WS4 to assess the water quality of the River Thames; and
 - groundwater locations in boreholes BH1, BH2, BH3, BH4 and BH6.
- 3.2.47. WS2 was used as a ‘control’ point for WS1 and WS3, and WS4 as a ‘control’ point for the borehole locations. Scott Wilson reported that based on the monitoring data, the post remediation completion criteria were met. Consequently, it was concluded that the site no longer presented a potential risk to cause significant contamination of the local surface water and groundwater systems. Boron concentrations were noted to increase within WS3 but this was attributed to the lack of water flow in the area and therefore not representative of boron concentrations from the site.
- 3.2.48. WSP was not able to review any correspondence with the Environment Agency and it is therefore not known if confirmation that the site had been suitably remediated was ever obtained. WSP reviewed the last monitoring round completed by Scott Wilson in October 2022 and identified elevated concentrations of arsenic ranging from 6.3µg/l to 81.8µg/l, boron ranging from 525µg/l to 60,168µg/l and sulphate ranging from 391,000µg/l to 1,065,000µg/l compared against applicable Water Quality Standards (WQS). Concentrations met the remedial targets identified from the control sample WS4. Concentrations within WS3 were elevated above control point WS2, but as

mentioned in the Scott Wilson report this may have been due to the lack of water flow within the area.

- 3.2.49. AMEC carried out a ground investigation from November 2008 comprising 37 trial pits excavated to a maximum depth of 2.00m bgl. Ground conditions encountered are summarised as:
- Made Ground was present in all trial pit locations, between depths of 0.60m bgl and 2.00m bgl. The Made Ground typically comprised building materials including brick, concrete, metal, tile, wood and glass. Occasionally encountered were plastic, chalk, wire, slate fragments, pipes, rope and clinker;
 - alluvium was encountered within 16 trial pits comprising clayey silt or silty clay with black organic material;
 - groundwater was encountered in nine trial pits; and,
 - olfactory evidence of contamination was observed in the natural ground with a chemical odour noted in trial pits TP14, TP16, and TP17P; and hydrocarbon odours noted within the groundwater encountered in TP24, TP34, and TP35.
- 3.2.50. Samples collected from the Made Ground were scheduled for chemical analysis of metals, cyanide, sulphide, TPHs, PAHs, sulphate and phenols. No concentration exceeded relevant guideline values for a residential with plant uptake end land use.
- 3.2.51. The WSP report compared the results of the surface water samples against WQS criteria and identified concentrations above the WQS of arsenic, copper, nickel, lead and zinc.

Ground Investigation

- 3.2.52. WSP undertook ground investigation between 20th and 28th February 2017 comprising:
- three cable percussion boreholes (BH101 – BH103) advanced to depths between 22.0m and 24.45m bgl; and
 - eight window sample boreholes (WS201 – WS208) advanced to 5.00m bgl.
- 3.2.53. All exploratory holes were installed with monitoring wells.

Ground Conditions

- 3.2.54. The ground conditions encountered in the WSP 2017 ground investigation are presented in **Table 3-6**.

Table 3-6: Ground Conditions Encountered in WSP 2017 Ground Investigation

Stratum		Typical Description as Recorded	Depth to Base of Strata in m bgl
Artificial	Made Ground	Typically comprised brown slightly sandy gravelly clay with rare clinker, tile, plastic and metal. Gravel comprised brick, concrete and flint.	1.60 - 2.70
Superficial	Alluvium	Typically comprised soft to firm silty organic clay with lenses of sand. Peat deposits were encountered and noted as a soft to firm reddish brown clayey peat with abundant wood fragments. The peat bands ranged in thickness from localised pockets within the alluvial clay to deposits up to 2.70m thick. Typical thicknesses of peat were 1.0 to 1.5m thick.	7.20 - 8.00
	River Terrace Deposits (Taplow Gravel Formation)	Typically comprised dense to very dense grey to brown very sandy gravel of fine to coarse subangular to subrounded flint. Occasional fragments of shell and bands of gravelly sand.	21.30 - 23.60
Bedrock	London Clay	Stiff bluish grey clay with shell fragments.	Not proven (boreholes terminated at 24.00- 24.45)

Visual and Olfactory Evidence of Contamination

3.2.55. No visual or olfactory evidence of contamination was identified except for the clinker, tile, plastic and metal items observed within the Made Ground.

Groundwater

3.2.56. Groundwater was encountered in boreholes BH101, BH102 and BH103 as summarised in **Table 3-7** below.

Table 3-7: Depths of Groundwater Strikes Encountered in WSP 2017 Ground Investigation (GI)

Exploratory Hole	Water Strike		Standing Water Level*	
	Depth (m bgl)	Strata	Depth (m bgl)	Strata
BH101	7.80	Alluvium	1.02	Made Ground
BH102	7.50	Taplow Gravel Formation	1.89	Made Ground
BH103	0.30	Made Ground	0.30	Made Ground
	7.20	Taplow Gravel Formation	2.21	Alluvium

Note:
 * Recorded 20 minutes after initial water strike.

- 3.2.57. During post ground investigation monitoring, groundwater levels were recorded in the Made Ground between 0.70m and 2.06m bgl, in the Taplow Gravels between 0.95m and 2.21m bgl, and in the Alluvium between 0.14m and 2.63m bgl.
- 3.2.58. A prevailing groundwater flow direction could not be determined for the site, and it is suggested in the WSP report that the variations in groundwater flow direction and levels vary due to the presence of drains and watercourses surrounding the site, and the tidal influence of the River Thames. It is also considered that there is hydraulic continuity within the strata.

Human Health Assessment

- 3.2.59. Nine samples obtained from the Made Ground and six samples from the Alluvium were scheduled for analysis of metals, chromium VI, bromide, sodium, sulphate, Soil Organic Matter (SOM), pH, TPHs, PAHs, Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), PCBs, faecal coliforms and Waste Acceptance Criteria (WAC). The nine samples obtained from the Made Ground were also screened for asbestos.
- 3.2.60. No exceedances were identified to be elevated above the relevant criteria for a commercial end use. Criteria are not currently available for bromide, sodium, sulphate or bromate. Bromate was not identified above the LoD. Bromide was encountered across the Site above the LoD ranging from 0.394mg/kg to 8.82mg/kg; sodium was identified ranging from 269mg/kg to 5,730mg/kg; sulphate was identified ranging from 0.18mg/kg to 494mg/kg.

- 3.2.61. Asbestos was detected in three samples located in Borax South in samples obtained between depths of 1.30m and 1.70m bgl. Asbestos quantification was completed, and results identified a maximum of 0.001%. WSP suggested that given the depth of the samples and their locations, the results imply that asbestos was present in the backfill provided during the 2001 Knight Piesold remediation works and there is a risk of exposure to Site users and third party neighbours during the disturbance of Made Ground.

Controlled Waters Assessment

- 3.2.62. Eleven water samples were submitted for analysis of a range of inorganic and organic determinands. Eight samples were obtained from groundwater present within the monitoring standpipes and three samples were obtained from surface water present within the drain/ditches surrounding the Site Boundary.
- 3.2.63. Exceedances were identified above the relevant criteria applicable to groundwater and surface water receptors. Exceedances of metals, PAHs and TPHs were present within the groundwater in the Made Ground, Alluvium and Taplow Gravels. Exceedances of metals were identified within all surface water samples with maximum concentrations located downstream of the Site.

Gas Assessment

- 3.2.64. Four ground gas monitoring visits were undertaken by WSP. The maximum values for carbon dioxide and methane were recorded as 11.2% v/v and 54.8% v/v, respectively. A maximum flow rate of 8.6 l/h was recorded.
- 3.2.65. Based on the monitoring data, the Site was classified under Characteristic Situation 4 (CS4) where protective gas measures are required for commercial/industrial developments.

Hazardous Waste Assessment

- 3.2.66. WSP completed a hazardous properties assessment by entering dry soil test results into HazWasteOnline³⁰. Of the 19 samples obtained and scheduled for analysis, 14 were classified by HazWasteOnline³⁰ as 'potentially hazardous', due to potentially flammable properties associated with marginally elevated TPH and ethylbenzene. However, WSP considered the concentrations of the contaminants to be of low flammability potential.
- 3.2.67. One sample from the northern area of the Site was classified as hazardous due to concentrations of copper and zinc. Four samples in the southern area of the Site were classified as hazardous due to pH, and elevated concentrations of boron and lead.

Waste Acceptance Criteria Assessment

3.2.68. An initial Waste Acceptance Criteria (WAC) analysis was conducted to provide a classification of soils destined for offsite disposal to a suitably licenced landfill. Two samples were submitted for WAC analysis: the first from Borax North was classified as inert material; and the second from the Borax South was classified as non-hazardous due to elevated total organic carbon (%).

GDG, 2021

3.2.69. GDG produced a combined Geotechnical Interpretative Report and Contaminated Land Report to be considered in the design and construction of Riverside 2. All information within the report is based on the following previous reports:

- WSP; Riverside Data Centre Ground Investigation Report Riverside Resource Recovery Ltd.; ref.: 70031031; dated August 2017;
- WSP; Cory Data Centre Detailed Quantitative Risk Assessment (DQRA) To Controlled Waters; ref.: 70031031; dated November 2017;
- Peter Brett Associates; Phase 1 Ground Conditions Assessment; ref.: 42166/3501/GCA; dated 2018;
- Peter Brett Associates; Phase 2 Ground Conditions Assessment; ref.: 42166/3501/Ph2GCA; dated 2018; and
- TerraConsult; Riverside EfW; ref.: 3765R001-2; dated July 2018.

3.2.70. The GDG report is split into sections relating to:

- Work No. 1-7 for the main Riverside 2 site; and
- Work No. 8 for the Riverside 2 temporary construction compound site.

3.2.71. The approximate work areas are outlined in red on **Figure 3-1** as obtained from the GDG report.



Figure 3-1: Work No. 1 – 8 as Obtained from the GDG 2021 Report

Work No. 1-7 for the main Riverside 2 site

Ground Investigation

- 3.2.72. TerraConsult was instructed by Doran Consulting to undertake an intrusive ground investigation on the proposed site as well as at the adjacent Riverside 1. The ground investigation was undertaken between 26th March and 19th June 2018.
- 3.2.73. GDG was present during the commencement ground investigations and undertook the role of Applicant representative providing geotechnical support offsite when required. Peter Brett Associates provided the specification for geo-environmental laboratory analysis of the soils.
- 3.2.74. The GDG report states that previous ground investigations were carried out on the adjacent site by Soil Mechanics Ltd in April and November 2007 and information from these have been utilised during interpretation of the ground conditions in the main Riverside 2 site area. The Soil Mechanics report is not available to WSP for review.

Ground Conditions

- 3.2.75. Based on observations during the TerraConsult ground investigation, GDG formed two ground models for the main Riverside 2 site.
- 3.2.76. Ground model 1 is applicable to the southern area of the main Riverside 2 site and the conditions within this area are replicated from the GDG report in **Table 3-8**.

Table 3-8: Ground Model 1 Ground Conditions

Stratum		Typical Description as Recorded	Depth to base of Strata in m bgl
Artificial	Made Ground	Loose silty gravel, clayey sand, sand, cobbles, bricks, and concrete.	0.68
Superficial	Alluvium - Cohesive	Very soft to soft sandy peaty clay.	10.00
	Peat	Very soft decomposed organic woody peat. Rootlets and woody plant material present in pockets.	6.00
	Alluvium - Granular	Very loose to loose clayey sand.	10.50
	Taplow Gravel Member	Medium dense silty fine to coarse sand and rounded to sub-angular gravel	18.00
Bedrock	Harwich Formation	Medium dense sandy gravel	26.30
	Lambeth Group Upper	Very stiff sandy gravelly clay	30.60
	Lambeth Group Lower	Dense to very dense silty gravel and sand.	Not proven

3.2.77. Ground model 2 is applicable to the rest of the main Riverside 2 site and the ground conditions encountered are replicated from the GDG report in **Table 3-9**.

Table 3-9: Ground Model 2 Ground Conditions

Stratum		Typical Description as Recorded	Depth to Base of Strata in m bgl
Artificial	Made Ground	Gravelly sandy clay with flint brick and concrete.	2.80
Superficial	Alluvium - Cohesive	Very soft to soft sandy gravelly clay /peaty clay.	10.50
	Peat	Very soft to soft decomposed organic woody peat. Rootlets and woody plant material present in pockets.	6.50
	Alluvium - Granular	Loose fine to medium silty sand and gravel.	13.50
	Taplow Gravel Member	Medium dense sandy silty gravel and fine to coarse silty sand.	15.50
Bedrock	London Clay	Stiff to very stiff sandy clay.	21.10
	Harwich Formation	Dense to very dense sandy/silty gravel or gravelly sand.	28.10
	Lambeth Group Upper	Firm to very stiff sandy gravelly clay.	32.05
	Lambeth Group Lower	Dense to very dense silty gravel and sand.	Not proven

Visual and Olfactory Evidence of Contamination

- 3.2.78. Olfactory evidence of potential contamination was noted at four locations within the Made Ground during the TerraConsult 2018 ground investigation. Descriptions were of a faint hydrocarbon odour, a sweet odour, a hydrocarbon odour and a rotten egg odour in BH01, BH06, BH13 and TP04, respectively.
- 3.2.79. Photo Ionisation Detector (PID) testing was carried out on soils within the Made Ground and upper strata. PID readings were relatively insignificant at an average of 0.52ppm.

Groundwater

- 3.2.80. Groundwater observations from the GDG report are summarised in **Table 3-10**.

Table 3-10: GDG Groundwater Observations

Exploratory Hole	Water Strike		Standing Water Level	
	Depth (m bgl)	Strata	Depth (m bgl)	Strata
BH01	5.50	Alluvium	5.50	Alluvium
	11.40	Boundary between Alluvium and Taplow Gravel Member	0.00	Top of hole (Made Ground)
	20.90	Boundary between London Clay and Blackheath Member of the Harwich Formation	6.40	Alluvium
BH02	10.60	Taplow Gravel Member	5.35	Alluvium
	20.10	Blackheath Member of the Harwich Formation	4.62	Alluvium
BH02A	10.40	Boundary between Alluvium and Taplow Gravel Member	3.20	Alluvium
BH03	10.00	Alluvium	4.70	Alluvium
	19.50	Blackheath Member of the Harwich Formation	2.90	Alluvium
BH04	9.40	Boundary between Alluvium and Taplow Gravel Member	9.40	Boundary between Alluvium and Taplow Gravel Member
	18.60	Boundary between London Clay and Blackheath Member if the Harwich Formation	3.60	Alluvium
BH05	9.45	Boundary between Alluvium and Taplow Gravel Member	9.00	Alluvium
BH06	6.00	Alluvium	3.00	Alluvium
	21.10	Boundary between London Clay and Blackheath Member of the Harwich Formation	3.90	Alluvium
BH08	10.00	Boundary between Alluvium and Taplow Gravel Member	10.00	Boundary between Alluvium and Taplow Gravel Member

Exploratory Hole	Water Strike		Standing Water Level	
	Depth (m bgl)	Strata	Depth (m bgl)	Strata
	20.50	Boundary between London Clay and Blackheath Member of the Harwich Formation	20.50	Boundary between London Clay and Blackheath Member of the Harwich Formation
BH10	9.60	Alluvium	3.00	Alluvium
	13.50	Boundary between Alluvium and London Clay	3.00	Alluvium
BH10A	9.00	Alluvium	3.10	Alluvium
BH11	10.60	Taplow Gravel Member	5.73	Alluvium
BH12	10.00	Boundary between Alluvium and Taplow Gravel Member	3.00	Alluvium
BH13	32.00	Blackheath Member of the Harwich Formation	32.00	Blackheath Member of the Harwich Formation
TP02	1.20	Boundary between Made Ground and Alluvium	1.20	Boundary between Made Ground and Alluvium
	3.00	Alluvium	2.90	Alluvium
TP04	1.05	Made Ground	1.05	Made Ground
	1.50	Alluvium	1.50	Alluvium
TP05	2.65	Alluvium	2.50	Alluvium
	2.75	Alluvium	2.65	Alluvium
TP06	1.10	Alluvium	1.10	Alluvium
	2.10	Alluvium	2.10	Alluvium
	2.70	Alluvium	2.60	Alluvium

Human Health Assessment

- 3.2.81. Based on results of the TerraConsult 2018 investigation, PBA undertook a Phase 2 quantitative risk assessment. There were no exceedances in the GAC of soils for human health in a commercial setting. However, there were 12 positive asbestos detections identified at the site. Eight of these were quantified below the limit of detection and the remaining four samples were quantified as ranging between 0.002% and 0.015%. PBA concluded that the presence of asbestos within the Made Ground poses a 'high' risk to human health.

Controlled Waters Assessment

- 3.2.82. PBA interpreted the results of a total of 28 water samples (18 groundwater, six surface water from drainage ditches surrounding the site, four surface water from the River Thames) that were analysed as part of the TerraConsult investigation. The analytical results were compared against salt water Environmental Quality Standards (EQS).
- 3.2.83. Two groundwater exceedances were identified for arsenic in one borehole, and one exceedance for Chromium VI in another borehole. As these exceedances were localised to specific boreholes, PBA concluded that the soils onsite are unlikely to be leaching to an extent that would be considered a risk to the environment. Further, no exceedances of the EQS were identified in any of the surface water samples recovered from the River Thames nor from the surface water ditches surrounding the Site. The risk to groundwater and the River Thames was considered to be very low.

Gas Assessment

- 3.2.84. Seventeen rounds of ground gas monitoring were undertaken by TerraConsult between 30th May 2018 and 29th October 2019. With the exception of BH04, all wells were flooded during the visits.
- 3.2.85. A Gas Screening Value (GSV) of 0.0056l/hr was calculated using a data point from BH04 using a maximum flow rate of 0.1/hr and maximum gas concentration of 5.6% v/v. This GSV indicates the appropriate classification for the Site is Characteristic Situation 1 under BS8485:2015+A1:2019 guidance. However, due to the elevated concentration of carbon dioxide (>5%v/v), this was increased to Characteristic Situation 2.
- 3.2.86. GDG considered that based on field descriptions of the Made Ground and Alluvium, ground gases would pose a low risk at the Site.

Remediation Recommendations and Mitigation Measures

- 3.2.87. GDG report that the 2018 PBA Phase 2 report proposed a number of recommendations as to the management of the site with regards to contamination for Work No. 1-7. No remediation was required prior to the development of the site to render the land fit for the intended use.

Work No. 8 for the Temporary Construction Compound Site

- 3.2.88. The northern area of the temporary construction compounds for Riverside 2 (Borax North) was located where WSP had undertaken its 2017 investigations for the Riverside Data Centre. Findings of the WSP 2017 Ground Investigation report are presented above in **Section 3.2**.
- 3.2.89. GDG also reviewed a controlled waters DQRA undertaken by WSP in 2017, which is summarised here.

3.2.90. No environmental data were available to GDG to assess environmental conditions at the southern area of the temporary construction compound (Borax South).

WSP DQRA

3.2.91. Following exceedances of the EQS in groundwater and surface water samples obtained during the WSP February 2017 investigations, additional sampling was undertaken in September and October 2017 to enable a DQRA. In the WSP 2017 GQRA, elevated concentrations of metals, PAHs, and TPHs were detected in the underlying soils, shallow groundwater and surrounding shallow drains.

3.2.92. Key findings of the WSP DQRA are summarised in the GDG report as:

- the Taplow Gravels were found to be in hydraulic connectivity with the River Thames;
- the shallow groundwater in the Alluvium was found to be largely stagnant, although is influenced by shallow surface drains and the flood protection measures along the Thames;
- groundwater flow direction was calculated to be to the north/northwest within both the Alluvium and the Taplow Gravel; and,
- elevated concentrations of salt were identified in shallow groundwater indicating that there was likely saline intrusion from the Thames.

3.2.93. Given the findings of elevated contaminants of concern at the GQRA stage, Level 3 groundwater Site Specific Assessment Criteria (SSAC) were derived, with the River Thames identified as the key receptor.

3.2.94. Screening of all water analyses against the SSAC indicated that the level of contamination underlying the Site within the shallow groundwater posed a low risk to the River Thames, shallow groundwater and surrounding surface water features.

3.2.95. WSP therefore recommended that the site required no remedial measures to render it fit for purpose as a data centre.

4. ENVIRONMENTAL SETTING

4.1. GEOLOGY

- 4.1.1. A review of the BGS online Geology of Britain viewer and information provided within the Groundsure Report was undertaken. Based on this review, the anticipated geology underlying the Site is summarised in **Table 4-1**.
- 4.1.2. Descriptions are based on BGS Geological descriptions and records.

Table 4-1: Summary of Anticipated Geological Strata

Stratum		Description
Artificial	Made Ground	Artificial deposits present on the natural ground surface and primarily composed of anthropogenic materials e.g., concrete, crushed brick. Artificial ground also includes worked ground where the ground has been cut away and infilled ground where the ground has been cut away then wholly or partially backfilled.
Superficial	Alluvium	Detrital deposits of silt, sand, clay and gravel.
	Head Deposits	Variable lithologies. Mainly clay and silt.
	Taplow Gravel Member	Sand and gravel, locally with lenses of silt, clay or peat.
Bedrock	London Clay Formation	Bioturbated or poorly laminated, blue-grey or grey-brown, slightly calcareous, silty to very silty clay, clayey silt and sometimes silt, with some layers of sandy clay.
	Blackheath Member of the Harwich Formation	May be encountered at the base of the London Clay Formation. Dominated by black and well-rounded flint gravel in a matrix of sand, with lenses of sand and thin clay layers.
	Lambeth Group	Vertically and laterally variable sequences mainly of clay, some silty or sandy, with some sands and gravels, minor limestones and lignites and occasional sandstone and conglomerate.

Stratum		Description
	Thanet Formation	Typically composed of homogeneous, bioturbated, glauconitic silty fine-grained sand, with sandy silt, silt or sandy, silty clay. The deposits are generally pale yellow-brown in colour, typically with a 'peppering' of dark-coloured glauconite grains. Sparse white mica occurs throughout. Rare coarse gravel is present in places in London.
	Chalk Group	White chalks (microporous coccolithic limestone) with beds of flint, nodular chalks, hardgrounds and marl seams.

- 4.1.3. Superficial geology including alluvium, head deposits and the Taplow Gravel Member is anticipated across the Site.
- 4.1.4. The bedrock geology sequence in the northern half of the Site^b consists of the London Clay and in sequence is underlain by the Blackheath Member of the Harwich Formation, the Lambeth Group, the Thanet Formation and the Upper Chalk Formation. The Blackheath Member is not continuous and may be encountered at the base of the London Clay Formation or in older parts of the Lambeth Group/cut locally into the Thanet Formation. BGS records indicate that the London Clay is absent in the south of the Site where the Lambeth Group is expected to be encountered underlying the superficial deposits.
- 4.1.5. The BGS GeoIndex Onshore website displays numerous records of historical boreholes located onsite and in the surrounding area.
- 4.1.6. Summaries of pertinent boreholes located onsite are provided in **Table 4-2**. Geological strata have been designated based on interpretation of the 'as recorded' log descriptions.

^a BGS mapping indicates that the boundary between the Lambeth Group and London Clay runs approximately E-W across the Site cutting through Western Paddock, Stable Paddock, and Eastern Paddock/Borax North.

Table 4-2: Summary of BGS Boreholes

BGS Reference	National Grid Reference	Location	End of Hole in m bgl	Stratum	Description as Recorded (Depth to Base of Strata in m bgl)
TQ48SE145	TQ 49460 80800	Onsite. Located in the north of the Site, adjacent to the riverbank.	15.20	Made Ground	Tarmac, hardcore (0.50) Ash (2.10)
				Alluvium / Taplow Gravel Member	Firm green and brown clay (3.20) Soft clay and peat (6.10) Clayey sand and peat (10.70) Gravel and sand (14.00)
				London Clay Formation	Stiff blue fissured clay (undetermined as borehole terminated at 15.20)
TQ48SE492	TQ 49710 80700	Onsite located within footprint of current Riverside 1.	91.44	Made Ground	Made Ground (1.07) Concrete (1.68)
				Taplow Gravel Member	Timber and clay (3.05) Clay and Peat (10.36) Thames Ballast (gravels and sands) (16.31)
				London Clay Formation / Blackheath Member	Blue clay and pebbles (23.77) Green sand and pebbles (28.35)
				Lambeth Group	Clay and shells (32.31) Hard and soft bands of lignite (34.44) Blue clay and shells (36.27) Clay (40.54)
Thanet Formation / Blackheath	Sandy clay and pebbles (42.37) Black pebbles (43.28)				

BGS Reference	National Grid Reference	Location	End of Hole in m bgl	Stratum	Description as Recorded (Depth to Base of Strata in m bgl)
				Member beds	Sand and pebbles (44.50) Green sand (49.07) Green flints (57.00)
				Upper Chalk	Chalk and flints (undetermined as borehole terminated at 91.44)
TQ48SE34	TQ 49510 80490	Onsite. Located in centre of Site.	15.24	Alluvium	Topsoil and firm brown and grey mottled silty clay (1.52)
				Taplow Gravel Member	Soft brown peat (3.66) Soft grey organic silty clay (7.92) Medium dense to dense brown fine to coarse gravel with sand (undetermined as borehole terminated at 15.24)
TQ47NE153	TQ 49530 79870	Onsite. Located adjacent to Site's southern Boundary.	20.00	Alluvium	Firm mottled brown silty clay (1.40)
				Taplow Gravel Member	Soft grey slightly peaty very silty clay with traces of gravel and sand (3.30) Soft dark brown clayey amorphous peat (4.60) Soft grey peaty clayey silt with some vegetation (7.85)
				Lambeth Group / Blackheath	Light green fine sandy silt/silty fine sand, with clayey bands and some

BGS Reference	National Grid Reference	Location	End of Hole in m bgl	Stratum	Description as Recorded (Depth to Base of Strata in m bgl)
				Member beds	<p>medium dense sandy gravel (8.70)</p> <p>Medium dense coarse to medium sandy coarse to fine rounded gravel (13.90)</p> <p>Very dense light green cemented sand, shells and black pebbles (14.40)</p> <p>Very dense grey silty fine sand with shell fragments and coarse to fine black rounded pebbles. Becoming green silty fine sand. (17.90)</p> <p>Very dense dark green silty fine sand with bands of green silty clay and occasional black rounded pebbles (undetermined as borehole terminated at 20.00)</p>

4.1.7. Copies of the historic borehole logs are included in **Annex G**.

4.1.8. A review of previous ground investigations at the Site has been undertaken in **Section 3.2** and indicates that the geology across the Site is variable.

4.2. GROUND STABILITY HAZARDS

4.2.1. Information on potential ground hazards assessed by the BGS are summarised in **Table 4-3**.

Table 4-3: Ground Stability Hazards onsite (Groundsure, 2023)

Feature	Hazard
Shrink swell clays	Low risk across the Site.
Running sands	Very low risk across areas of Made Ground. Low risk across the Site where Made Ground is not present. Moderate risk along the riverbank. Low risk in the area covering the River Thames.
Compressible deposits	Very low risk across areas of Made Ground. High risk across the Site where Made Ground is not present. Moderate risk along the riverbank. High risk in the area covering the River Thames.
Collapsible deposits	Negligible risk across the Site.
Landslide ground stability	Very low risk across the Site.
Ground dissolution of soluble rocks	Negligible risk across the Site.

4.2.2. Data from the Groundsure Report indicates that:

- there are no natural cavities in or within 500m of the Site;
- there are no records of Brit Pits (active and closed surface and underground mineral workings) located within 500m of the Site;
- there are 47 records of surface workings within 250m of the Site. These include onsite records of unspecified heaps, unspecified wharfs, refuse heaps, an unspecified pit, and ponds. Offsite records include unspecified ground workings located 3m to the southwest, unspecified heaps located 20m to the southwest, and sludge lagoons located 26m to the northwest;
- there are four records of sand mining having potentially occurred 140m to the south, 375m to the south, 690m to the northwest, 700m to the northwest, and 960m to the west. The Groundsure Report notes that the potential for difficult ground conditions are unlikely and localised and are at a level where they need not be considered;
- there are eight records of chalk mining having potentially occurred between 700m and 975m to the south. The Groundsure Report notes that the potential for difficult

ground conditions are unlikely and localised and are at a level where they need not be considered;

- there are no records of historical mineral planning areas, coal mining, gypsum mining, tin mining, or clay mining having occurred within 1000m of the Site; and
- the south of the Site is within an area where very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock.

4.3. HYDROLOGY

- 4.3.1. The primary sensitive surface water feature within the Site is the River Thames. There are five other main rivers, eleven ordinary watercourses and fourteen ponds located within 500m of the Site.
- 4.3.2. The River Thames lies within the Thames Middle Water Framework Directive (WFD) water body (Water body ID: GB530603911402). As of 2019, Environment Agency issued the River Thames a 'Fail' chemical rating and 'Moderate' ecological rating.
- 4.3.3. The 'Fail' chemical rating was issued due to the presence of benzo(a)pyrene, benzo(b)fluoranthene, benzo(g-h-i)perylene, mercury and its compounds, perfluorooctane sulphonate (PFOS), polybrominated diphenyl ethers (PBDE) and tributyltin compounds.
- 4.3.4. Two active licenced surface water abstraction points are located approximately 15m and 30m to the west of the Site Boundary. There are two active licenced surface water discharges located within the Site that flow into the River Thames; one is associated with site drainage at the Warehouse/Belvedere Regional Distribution Centre located adjacent (southeast) to the Site, and the other is a temporary licence held by Cory for the dewatering required for the construction of Riverside 2 (at the time of writing, construction works for Riverside 2 are being undertaken).
- 4.3.5. A review of the Flood map for planning website indicates that the Site is located within a Flood Zone 3 that is defined as land having a high probability (1 in 100 or greater annual probability) of river flooding. Consultation with the Environment Agency has been undertaken as part of a Flood Risk Assessment (see **Appendix 11-2: Flood Risk Assessment (Volume 3)**) for the Proposed Scheme. The Environment Agency confirmed that the Proposed Scheme and its surroundings are protected up to the present day 1 in 1,000 year event by the flood defences present in the north of the Site along the riverbank of the River Thames. To ensure the Proposed Scheme is not at risk of flooding, appropriate mitigation measures have been incorporated into the design and further details are presented in **Appendix 11-2: Flood Risk Assessment (Volume 3)**.
- 4.3.6. A copy of the Flood Risk Map is included in **Annex H**.

- 4.3.7. Included in the Groundsure Report is one record of a tidal historical flood event having occurred onsite on 31 January 1953 when flood defences along the Thames failed.
- 4.3.8. The Site does not sit within a Flood Storage Area.

4.4. HYDROGEOLOGY

- 4.4.1. The aquifer designations attributed to the underlying Site geology are provided in **Table 4-4**.

Table 4-4: Aquifer Designations Based on Anticipated Geology

Stratum		Aquifer Designation
Artificial	Topsoil	No designation
	Made Ground	No designation
Superficial	Alluvium	Secondary Undifferentiated
	Head Deposits	Secondary Undifferentiated
	Taplow Gravel Member	Secondary A
Bedrock	London Clay Formation	Unproductive
	Blackheath Member of the Harwich Formation	Secondary A
	Lambeth Group	Secondary A
	Thanet Formation	Secondary A
	Chalk Group	Principal

- 4.4.2. The risk of groundwater pollution onsite is high in the south of the Site where the productive Secondary A aquifers and Principal aquifer are overlain by superficial deposits. There is further potentially increased vulnerability of the bedrock aquifers within the River Thames where the cover by superficial deposits is limited.
- 4.4.3. The risk of groundwater pollution is low where the unproductive London Clay formation forms the bedrock. The relative impermeability of the London Clay forms an aquitard between the high leaching potential superficial deposits above and the high vulnerability bedrock aquifers below.
- 4.4.4. The Groundsure Report identifies a dewatering borehole for the Riverside Energy Park to the north of the site at NGR TQ 49416 80774 under licence number TH/039/0044/030. The licence is active with a start date from 27th March 2023 and

expiry date of 31st January 2025. An annual and maximum daily volume (m³) is not provided.

- 4.4.5. There are three active licensed groundwater abstraction points within 2km of the Site. The first is located 1030m to the southeast, sourced from the Thames groundwater and used for mineral washing. The second is located 1955 m to the southeast, sourced from the Thames groundwater and used for drinking, cooking, sanitary purposes, washing, and commercial/industrial/public services. The third is located 1986 m to the south, sourced from the Thames groundwater and used for general commercial, industrial, and public services including drinking and washing.
- 4.4.6. The Site lies within the WFD Greenwich Tertiaries and Chalk groundwater body (Water body ID: GB40602G602500). As of 2019, Environment Agency issued this groundwater body, an overall 'Poor' rating due to results of quantitative saline intrusion and chemical saline intrusion tests.
- 4.4.7. The hydrogeological data for the historical BGS borehole logs reviewed in **Section 4.1** are presented in **Table 4-5**.

Table 4-5: Hydrogeological Data from BGS Historical Boreholes

Borehole	Water Strike		Standing Water Level	
	Depth (m bgl)	Strata	Depth (m bgl)	Strata
TQ48SE145	2.10	Boundary between Made Ground and Alluvium/ Taplow Gravel Member	2.10	Boundary between Made Ground and Alluvium/ Taplow Gravel Member
	6.10	Alluvium/ Taplow Gravel Member		
	10.70	Alluvium/ Taplow Gravel Member		
TQ48SE492	3.05	Taplow Gravel Member	3.35	Taplow Gravel Member
	5.33	Taplow Gravel Member		
TQ47NE153	2.20	Taplow Gravel Member		
	7.85	Boundary between Taplow Gravel Member and Lambeth Group /		

Borehole	Water Strike		Standing Water Level	
	Depth (m bgl)	Strata	Depth (m bgl)	Strata
		Blackheath Member beds		
	3.10	Taplow Gravel Member	3.00*	Taplow Gravel Member
	4.90	Taplow Gravel Member	4.90*	Taplow Gravel Member
			5.60	Taplow Gravel Member

Note:
 * Denotes instances where upon encountering a water strike, drilling has ceased for a period of time and a standing water level recorded thereafter.

- 4.4.8. Limited groundwater level monitoring data is available for the Site from previous ground investigations. Groundwater monitoring was undertaken during the WSP 2017 GI and GDG 2021 GI. The average depth to groundwater level during this monitoring was 1.4m bgl and ranging from 0.66m bgl to 3.25m bgl.
- 4.4.9. Water strikes recorded during borehole development in the previous ground investigations identified a potentially separate deeper bedrock groundwater level encountered at approximately 20m bgl in the Harwich Formation and up to 32m bgl in the Lambeth Group.
- 4.4.10. A detailed summary of the groundwater monitoring data obtained during these previous ground investigations is contained in **Appendix 11-4: Groundwater Impact Assessment (Volume 3)**.
- 4.4.11. Based on the BGS historical borehole data and groundwater monitoring data from previous ground investigations, groundwater is likely to be encountered onsite in the Alluvium and Taplow Gravel Member. Groundwater may be encountered as discontinuous pockets of perched water within the Made Ground.
- 4.4.12. The local groundwater flow direction is anticipated to be towards the River Thames i.e. in a north/northwesterly direction. However, variations in groundwater flow are expected due to the presence of drains and watercourses surrounding the Site, as well as the tidal influence of the River Thames.
- 4.4.13. Previous ground investigations to date have identified contaminants of concern in the groundwater within the Proposed Scheme Site Boundary. Groundwater present in the Made Ground, Alluvium and Taplow Gravels has previously been found to contain contaminants including arsenic, boron, cadmium, copper, lead, nickel, zinc, PAHs,

TPHs, and chromium VI. The Detailed Quantitative Risk Assessment conducted by WSP 2017 found that elevated concentrations of salt within shallow groundwater indicated that there was likely a saline intrusion from the River Thames. Controlled waters risk assessments conducted by WSP in 2017 and PBA in 2018 considered that contamination within the shallow groundwater respectively posed low and very low risk to the River Thames, groundwater and surrounding surface water receptors.

4.5. NITRATE VULNERABILITY ZONE

4.5.1. The Site is not located within a Nitrate Vulnerable Zone for Surface Water.

4.6. SOURCE PROTECTION ZONES

4.6.1. The Site is not located in or within 500m of an Environment Agency designated Source Protection Zones (SPZ).

4.7. DESIGNATED SITES AND SENSITIVE LAND USES

4.7.1. The Crossness LNR extends onsite from the west. There are two LNRs located within 1200m of the Site: Rainham Marshes is located 900m to the east and Lesnes Abbey Woods, 1.2km to the south. LNRs are sites actively managed for nature conservation to support and protect habitats and species.

4.7.2. Priority Habitat Inventories including coastal and floodplain grazing marsh, coastal salt marsh, deciduous woodland, good quality semi-improved grassland and mudflats are present onsite. Priority Habitat Inventories are designated as areas deemed to be of principal importance for the purpose of conserving biodiversity.

4.7.3. Open Mosaic Habitats are present onsite at the Gannon land parcel and 225m to the south of the Site at Erith Marshes. 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.

4.7.4. The Site lies within a designated Site of Special Scientific Interest (SSSI) impact zone due to the Inner Thames Marshes SSSI located 900m to the east and the Abbey Wood SSSI located 1.2km to the south. SSSI Impact Risk Zones were 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. The types of development proposal which could potentially have adverse impacts comprises the following:

- infrastructure - pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance), airports, helipads and other aviation proposals;
- wind and solar - all wind turbines, solar schemes with footprint >0.5 ha;

- minerals, oil and gas - planning applications for quarries, including new proposals, review of minerals permissions, extensions, variations to conditions etc. oil & gas exploration/extraction;
- rural non-residential - large non-residential developments outside existing settlements/urban areas where net additional gross internal floorspace is >1,000m² or footprint exceeds 0.2ha;
- residential - residential development of 10 units or more;
- rural residential - any residential developments outside of existing settlements/urban areas with a total net gain in residential units;
- air pollution - any industrial/agricultural development that could cause air pollution (including industrial processes, livestock & poultry units with floorspace >500m², slurry lagoons & digestate stores >200m², manure stores >250 tonnes (t));
- combustion - general combustion processes of >20mw energy input including energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion;
- waste - landfill including inert landfill, non-hazardous landfill, hazardous landfill;
- composting - any composting proposal with more than 500t maximum annual operational throughput including open windrow composting, in-vessel composting, anaerobic digestion, other waste management;
- discharges - any discharge of water or liquid waste of more than 2m³/day to ground (i.e., to seep away) or to surface water, such as a beck or stream; and
- water supply - large infrastructure such as warehousing/industry where net additional gross internal floorspace is >1,000m² or any development needing its own water supply.

4.7.5. The Site does not lie within 500m of any Special Areas of Conservation (SAC), Conserved wetland sites (Ramsar sites), Special Protection Areas (SPA), Designated Ancient Woodland, Biosphere Reserves, Forest Parks, Marine Conservation Zones, Green Belt areas, Proposed Ramsar sites, possible SAC, possible SPA, nor nitrate sensitive areas.

4.7.6. There are no visual and cultural designations including World Heritage Sites, National Landscapes (formerly known as Areas of Outstanding Natural Beauty), National Parks, Listed Buildings, Conservation Areas, Scheduled Ancient Monuments, and Registered Parks and Gardens within 250m of the Site.

4.8. RADON

4.8.1. According to BGS and Public Health England, the Site is within an area where less than 1% of homes are at risk from radon. Reference to the Health and Safety Executive publicly accessible webpage notes that although the radon data used in

production of the radon maps comes from measurements in homes, the maps indicate the likely extent of the local radon hazard in all buildings.

- 4.8.2. The information on the maps is therefore relevant to employers in assessing workplace risks. Under the Health and Safety at Work etc Act 1974, employers must, so far as is reasonably practicable, ensure the health and safety of employees and others who have access to their work environment. The Management of Health and Safety at Work Regulations 1999 require the assessment of health and safety risks, and this should include radon in above and below ground working places.
- 4.8.3. The radon map for the Site indicates that no radon protection measures are required for new buildings or extensions.
- 4.8.4. A copy of the radon risk map is included in **Annex I**.

4.9. PRELIMINARY HYDROGEOLOGICAL MODEL

- 4.9.1. Historical ground investigations undertaken at the Site indicate that groundwater is likely to be encountered in the Alluvium and Taplow Gravel Member.
- 4.9.2. The historical BGS borehole logs reviewed in **Section 4.1** show that groundwater is likely to be encountered in the Alluvium.
- 4.9.3. Groundwater may be encountered as discontinuous pockets of perched water within the Made Ground.
- 4.9.4. The direction of groundwater flow is anticipated to be towards the River Thames i.e. in a north/northwesterly direction.
- 4.9.5. Groundwater flow is likely through the Alluvium. Where the London Clay formation forms the bedrock, the impermeable clay deposits are likely to prevent vertical migration of groundwater from the superficial deposits to the underlying Secondary A aquifers and Principal aquifer.

5. REGULATORY INFORMATION AND CONSULTATION

5.1. ENVIRONMENTAL DATABASE INFORMATION

- 5.1.1. The Groundsure Report incorporates information and data collected from several sources including the Environment Agency, the local authority (LBB), Integrated Pollution Control (IPC), the BGS, and the Health & Safety Executive (HSE).
- 5.1.2. It is considered that the information listed in **Table 5-1** represents those of potential concern in relation to contamination of the Site. The full Groundsure Report is provided in **Annex E**.

Table 5-1: Summary of Database Information

Data Type	Onsite	Within 500m	Comments
Historical Industrial Land Uses	46	182	<p>Onsite historical land uses include the historical manure works; Belvedere Mill; the fish, guano and oil works; the gunpowder magazine; unspecified heaps; marshes; refuse heaps; unspecified pits; unspecified commercial/industrial uses; railway sidings; an unspecified depot; unspecified works; unspecified wharfs; and marshes.</p> <p>Offsite historical land uses include unspecified works; chimneys; a gunpowder magazine; unspecified depots; marshes; road and rail wagon works; railway sidings; unspecified ground workings; the motor cars manufactory; the sewage works; unspecified tanks; the candle manufactory; the cement works; a gasometer; an industrial park; sludge lagoons; and a dock.</p>
Historical Tanks	4	146	<p>There are two records of tanks and two records of unspecified tanks located onsite within the footprint of the present day Riverside 1.</p> <p>Offsite records are for tanks, unspecified tanks, a gasholder, and gasholder station. The nearest record is of a tank located 12m to the northeast of the Site.</p>

Data Type	Onsite	Within 500m	Comments
Historical Energy Features	2	14	<p>The onsite records refer to electricity substations: one located within the footprint of the present day Riverside facility and the second located to the west of Norman Road.</p> <p>Offsite features are an electricity transformer, electricity substations, a gasholder station and a gasholder. The nearest record is for the electricity transformer located 27m to the east of the Site.</p>
Historical Landfill (Environment Agency records)	0	3	<p>A historical landfill is associated with the former motor manufactory located 342m to the north and where inert, commercial and household wastes were disposed of. The licence for this landfill was issued in 1982, surrendered in 1991 and held by Ford Motor Company.</p> <p>A historical landfill was located 352m to the northeast, at Manor Way, Rainham. The type of waste disposed of, and details of the licence are not known.</p> <p>A historical landfill was located 495m to the northwest at Dagenham Dock where industrial and special wastes were disposed of. The licence for this landfill was issued in 1990, surrendered in 1991 and held by ARC Aggregates.</p>
Historical Waste Sites	2	5	<p>The two onsite records refer to planning applications for the Riverside 1 waste plant and temporary recycling centre.</p> <p>Offsite records refer to planning applications for:</p> <ul style="list-style-type: none"> • a waste transfer station/recycling facility located 211m to the east; • a recycling facility located 213m to the east; • a waste management facility located 223m to the south;

Data Type	Onsite	Within 500m	Comments
			<ul style="list-style-type: none"> • a material recycling facility located 263m to the southeast; and • a waste transfer station located 402m to the northeast.
Licensed Waste Sites	2	13	<p>The onsite records refer to the Riverside Resource Recovery Facility (a household, commercial and industrial waste transfer station).</p> <p>Offsite records are for the:</p> <ul style="list-style-type: none"> • Meridian Technical Services physical treatment facility located 169m to the southwest; • Crossness Sewage Treatment Works located 173m to the west; • Burts Wharf Recycling Depot located 186m to the east; • P M Highway Ltd physical treatment facility located 236m to the east; • Westminster Waste Transfer Station and Waste Treatment facility located 255m to the southeast; • Burts Wharf waste transfer station located 288m to the east; • Andrews Waste Management household, commercial and industrial waste transfer station and treatment/physical treatment facility located 409m to the northeast; and • Frog Island Waste Management Facility located 468m to the northeast.
Waste Exemptions	0	69	<p>Waste exemptions situated within 500m include those for:</p> <ul style="list-style-type: none"> • the storage of waste in a secure place; • the recovery of textiles; • preparatory treatments; • the sorting of mixed waste;

Data Type	Onsite	Within 500m	Comments
			<ul style="list-style-type: none"> • the storage of waste in secure containers; • the use of waste in construction; • the screening and blending of waste; • the treatment of waste food; • the crushing of fluorescent tubes; • the deposit of waste from dredging of inland waters; • the spreading of plant matter to confer benefit; • the use of waste to manufacture finished goods; • the sorting and de-naturing of controlled drugs for disposal; • the burning of waste as a fuel in a small appliance; • the mechanical treatment of end-of-life tyres; • the treatment of waste aerosol cans; and • the treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising.
Recent Industrial Land Uses within 250m	12	42	<p>Onsite recent industrial land uses recorded are two electricity substations, a dolphin jetty, a tank, cranes, a chimney, Riverside 1, and Middleton Jetty.</p> <p>Offsite records include electricity substations, recycling facilities, unspecified works, a pumping station, tanks, wind turbines, waste processing facilities, factories, chimneys, a dairy, plastic manufacturers, a fuel/gas distributor, and steel fabricator.</p>
Electricity Cables	6	2	<p>There are records of six high voltage underground electricity cables in the south of the Site.</p>

Data Type	Onsite	Within 500m	Comments
			Offsite records are for electricity cables located 270m to the southwest.
Control of Major Accident Hazards (COMAH) Sites	1	4	Historical COMAH sites are located: <ul style="list-style-type: none"> • 3m to the east at a Nufarm UK Ltd (an agricultural chemical company) site; • 454m to the south at the British Gas Belvedere Gas Holder Station; • 479m to the southeast at a Henkel Ltd. (a chemicals company) site. Current COMAH sites are located: <ul style="list-style-type: none"> • onsite at the Crossness Sewage Treatment Works; and • 374m to the northeast at a Flogas Britain Limited site.
Hazardous Substance Storage/Usage	0	7	Consents for sites to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015 have been granted: <ul style="list-style-type: none"> • 121m to the southeast at ASDA superstore; • 192m to the southeast at ASDA superstore; • 362m to the southeast at Calor Gas; • 362m to the southeast at a Nufarm UK Ltd site for the storage and use of specified hazardous substances; • 380m to the southeast at a Nufarm UK Ltd site for the storage and use of a wider range of hazardous substances covered by the COMAH Regulations 1999; • 496m to the northeast at a Flogas Britain Limited site for the storage and distribution of liquefied petroleum gas in bulk and in cylinders; and

Data Type	Onsite	Within 500m	Comments
			<ul style="list-style-type: none"> 496m to the northeast at a Flogas Britain Limited site for the storage of liquefied petroleum gas in quantities above the controlled level.
Historical Licensed Industrial Activities (IPC [Integrated Pollution Control] records)	5	21	<p>Onsite IPC records of substance releases to air, land and water relate to incineration activities at Riverside 1.</p> <p>Offsite records are located:</p> <ul style="list-style-type: none"> 215m to the south at a Cray Valley Ltd. site for the manufacture and use of organic chemicals; 380m to the southeast at a Henkel Ltd site for acid processes; 380m to the southeast at a Nufarm UK Ltd. site for processes involving halogens; and 447m to the southeast at a Nufarm UK Ltd. site for the manufacture and use of organic chemicals.
Licensed Industrial Activities (Part A(1))	14	32	<p>Onsite records with 'effective' status are for processes at Riverside 1 including:</p> <ul style="list-style-type: none"> the incineration of non-hazardous waste in an incineration plant with a capacity exceeding 3 tonnes per hour; recovery or a mix of recovery and disposal of >50 tonnes per day of non-hazardous waste involving biological treatment; <p>Offsite records with 'effective' status are located:</p> <ul style="list-style-type: none"> 173m to the west at the Crossness Sewage treatment plant for the combustion of any fuels =>50MW, and for the incineration of non-hazardous waste in an incineration or co-incineration plant with a capacity exceeding 3 tonnes per hour; and

Data Type	Onsite	Within 500m	Comments
			<ul style="list-style-type: none"> 468m to the northeast at a Renewi UK Services Limited Frog Island Waste Management facility for the recovery or a mix of recovery and disposal of >50 tonnes per day of non-hazardous waste involving biological treatment, and for the recovery or a mix of recovery and disposal of >50 tonnes per day of non-hazardous waste involving pre-treatment of waste for incineration or co-incineration.
Licensed Pollutant Releases (Part A(2)/B)	0	3	<p>Records are for activities located:</p> <ul style="list-style-type: none"> 278m to the southeast at Keith Ceramics Materials Ltd for the manufacture of clay; 343m to the northwest at Ford Motor Co. Limited for the burning of any fuel in an appliance with thermal input >50MW; and 411m to the southeast at Vencil Resil Ltd. for coating processes.
Licensed Discharges to Controlled Waters	3	31	<p>Discharges affecting onsite controlled waters have occurred when:</p> <ul style="list-style-type: none"> trade discharges (site drainage) were released from a Lidl distribution warehouse into the River Thames; final/treated sewage effluent was released during construction of Riverside 1 into the River Thames; and trade discharges (process effluent) was released during construction of Riverside 1 into the River Thames. <p>Offsite records of discharges include:</p> <ul style="list-style-type: none"> sewage discharges and trade discharges from Belvedere Industrial Estate, the Crossness Sewage Treatment works, Belvedere Power Station, to the Thames;

Data Type	Onsite	Within 500m	Comments
			<ul style="list-style-type: none"> miscellaneous discharges from Sidcup Plant hire to a ditch and freshwater located 428m to the southeast; and sewage discharges from Frog Island Waste Management facility to underground strata and groundwater.
Pollutant Release to Public Sewer	0	4	<p>Records of discharges of Special Category Effluents to the public sewer have occurred:</p> <ul style="list-style-type: none"> 215m to the south at Crab Valley Ltd.; 447m to the southeast at Nufarm UK Ltd.; 447m to the southeast at Bayer Agriculture Ltd.; and 447m to the southeast at Nufarm UK Ltd.
List 1 Dangerous Substances	0	16	<p>There are 16 records of discharges of substances identified on List 1 of the European Directive E 2006/11/EC and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015 having occurred within 500m of the Site. Substances released include mercury; cadmium; 1,2-dichloroethane; and pentachlorophenol.</p>
List 2 Dangerous Substances	0	36	<p>There are 36 records of discharges of substances identified on List II of the European E 2006/11/EC and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015 having occurred within 500m of the Site. Substances released include chromium; copper; nickel; cyanide; lead; nickel; zinc; toluene; boron; phenol; xylene; silver; tributyltin; triphenyltin; atrazine; and simazine.</p>
Pollution Incidents	1	13	<p>There is one record of a pollution incident having occurred onsite on 28 June 2005</p>

Data Type	Onsite	Within 500m	Comments
(Environment Agency Records)			<p>when contaminated water (firefighting run-off) was released causing minor impact to water, minor impact to land and significant impact to air.</p> <p>The nearest offsite pollution incident occurred 28m to the south-west on 14 April 2005 when organic chemicals were released causing significant impact to water, no impact to land and no impact to air.</p>
Pollution Inventory Substances	16	43	<p>The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land.</p> <p>Onsite records of substance releases are associated with activities at Riverside 1. Substances reported include carbon dioxide, chromium, ammonia, fluorine and inorganic fluorine compounds, particulate matter, and carbon monoxide being released to the air.</p> <p>Offsite records of substance releases are associated with activities at Crossness Sewage Treatment Works, (173m to the west) and Renewi UK Services Limited, (46m to the east). Substance releases reported from Crossness include asbestos to controlled waters, benzo(b)fluoranthene to controlled waters, chloroform to air, naphthalene to controlled waters, arsenic to controlled waters, and zinc to controlled waters. Substance releases reported from the Renewi site include non-methane volatile organic compounds to air; chlorides, cyanides, nitrogen, phenols, arsenic, cadmium, copper, lead and zinc to wastewater; particulate matter to air; and ammonia to air.</p>
Pollution Inventory	1	2	<p>The pollution inventory (waste transfers) includes reporting on annual transfers and</p>

Data Type	Onsite	Within 500m	Comments
Waste Transfers			<p>recovery/disposal of controlled wastes from a site.</p> <p>The onsite record is associated with activities at Riverside 1 including:</p> <ul style="list-style-type: none"> • recycling/reclamation of metals and metal compounds; • recycling/reclamation of other inorganic materials; and • a specially engineered landfill. <p>The two offsite records are associated with activities at Crossness Sewage Treatment Works and the Renewi UK Services Limited site.</p>

5.2. LOCAL AUTHORITY

5.2.1. LBB was contacted by the Applicant on behalf of WSP via email on 13 February 2023 to request a land use enquiry regarding environmentally pertinent information, substructure information and geological hazard data held relating to the Site.

5.2.2. A response was received on 27th February 2023 requesting a plan showing the approximate location of the Proposed Scheme to support LBB’s land use enquiry with regards to contamination. The response included the following information from LBB’s Building Control Team regarding substructure and geological hazard information:

“The ground conditions in the area are typically a mixture of made ground, clay, and underlying peat to depths of up to approximately 12m in places. The vast majority of sites in this part of the borough opt for a pile foundation design to overcome issues in relation to poor substrata. Raft foundations are occasionally specified for smaller projects. This is true for the majority of Belvedere north of Abbey Road and Lower Road. Localised borehole investigation would be necessary on the proposed site to allow for a designed foundation solution from a structural engineer. Industrial projects locally have also seen it necessary to allow for piled road bases leading to and around the site.”

5.2.3. As requested, a plan was sent to LBB on 28th February 2023 to support their land use enquiry.

5.2.4. An email was sent 27th October 2023 to LBB requesting a response to the enquiry sent on 28th February 2023.

5.2.5. A response has not been received at the time of writing.

5.3. ENVIRONMENT AGENCY

5.3.1. The Environment Agency was contacted by WSP via email on 27th October 2023 for environmentally pertinent information including contamination issues, water quality, landfill records and remedial works relating to the Study Area.

5.3.2. A response was received on 15th December 2023 and is summarised as follows:

- The Environment Agency has no record of any sites being determined as Contaminated Land under Section 78 of the Environmental protection act in the vicinity of the Site.
- The Environment Agency is not dealing with any designated special sites in the vicinity of the Site.
- The Environment Agency provided the following sources for information relating to water quality, the presence of above ground storage tanks, gas meters and current permitted sites, pollution incidents, and historic landfill sites:
 - Water quality data archive³¹;
 - Public Registers Online³²;
 - Environmental Pollution Incidents³³; and
 - Historic Landfill Sites¹⁷.
- The Environment Agency recommends contacting the Contaminated Land Officer (CLO) in the Local Authority’s Environmental Health Department for further specific information on soil and groundwater contamination issues and remedial works. As written in **Section 5.2**, this was undertaken on 28th February 2023 and a response from the CLO has not been received to date.

5.3.3. A review of the sources provided by the Environment Agency has been conducted.

5.3.4. The Environment Agency Water Quality Archive records of Water Quality Sampling Sites indicate that there are four Water Quality Sampling Sites located within 1km of the Site Boundary:

Table 5-2: Water Quality Sampling Sites within 1km of the Site Boundary

Sampling Point ID	Location	Sample Type	Determinands Tested
TH-PTSE0028	275m west at Crossness Sewage Treatment Works	Sewage discharges	Range of determinands including metals, pesticides, PCB, nitrogen, ammoniacal nitrogen, suspended solids
TH-PTSE0029	275m west at Crossness	Sewage discharges	Biochemical Oxygen Demand, Chemical Oxygen

Sampling Point ID	Location	Sample Type	Determinands Tested
	Sewage Treatment Works		Demand, ammoniacal nitrogen, suspended solids
TH-PTTR0095	290m east in the River Thames	Saline water	pH, salinity, dissolved oxygen
AN-MISCTQ58	320m east in Belvedere Industrial Estate	Unknown pollution	Metals, Biochemical Oxygen Demand, Chemical Oxygen Demand, suspended solids, PCB, cyanide, PAH, BTEX, dissolved oxygen.

- 5.3.5. The water sampling results at the three Water Quality Sampling sites indicate that there are no notable determinands present considered to be of environmental concern for the Site.
- 5.3.6. A search of the Environment Agency Public Registers constrained to within 1km of the post code DA17 6JY produces 75 results of industries, businesses and individuals registered as holding environmental permits and licences/exemptions or being waste carriers, brokers and dealers.
- 5.3.7. The review of sources for pollution incidents, provides no additional information to that presented in **Section 5.1**.

5.4. PLANNING HISTORY

- 5.4.1. The LBB planning portal has been reviewed and information pertinent to this PRA is summarised in **Table 5-3** below.

Table 5-3: Relevant Planning History

Planning Reference	Date Determined	Proposal	Status
87/01888/FUL	26 Jan 1988	Construction of Milling Shed and Milled Ore Silo at Borax Consolidation Limited Norman Road Belvedere Kent.	Approved
88/00124/FUL	06 Oct 1988	Erection of Workshop and installation of portable office and store and change of use to storage of portable office and store building.	Approved
89/02295/OUT	16 Oct 1990	Outline application: Re-development offsite for industrial purposes at Borax Works Norman Road Belvedere Kent.	Withdrawn
95/00807/GPDO	31 Aug 1995	G.P.D.O. Consultation Deemed Planning Permission for the construction and operation of a 130mw electricity generating station comprising: 1.2 million tonnes per annum municipal waste incinerator; ancillary buildings; reconstruction and wide.	Approved
96/00860/FUL	30 Apr 1997	Development of marine aggregate facility including the importation of aggregates by sea for processing and distribution by road and the manufacture of ready mixed concrete together with associated offices and buildings (previously approved).	Withdrawn
99/02388/CIRC	04 Oct 2017	Application to the Secretary of State for Trade and Industry for consent under Section 36 of the Electricity Act 1989 for the construction and operation of a resource recovery plant of nominally rated output of 72MW gross.	Approved

Planning Reference	Date Determined	Proposal	Status
99/02388/CIRC	15 Jun 2006	Application to the Secretary of State for Trade and Industry for consent under Section 36 of the Electricity Act 1989 for the construction and operation of a resource recovery plant of nominally rated output of 72MW gross.	Approved
99/02388/CIRC03	03 Jul 2007	Details of InterTidal Foreshore Report pursuant to Condition 29 of the Department of Trade and Industry consent (Section 36 of the Electricity Act 1989) dated 15th June 2006 for the construction and operation of an Energy from Waste Power Station.	Approved
99/02388/CIRC04	05 Jul 2007	Details of Flood Defence Survey pursuant to Condition 28 of the Department of Trade and Industry consent (Section 36 of the Electricity Act 1989) dated 15th June 2006 for the construction and operation of an Energy from Waste Power Station.	Approved
99/02388/CIRC05	16 Aug 2007	Details of Jetty Structure, materials and design pursuant to Condition 8 of the Department of Trade and Industry consent (Section 36 of the Electricity Act 1989) dated 15th June 2006 for the construction and operation of an Energy from Waste Power Station.	Approved
99/02388/CIRC07	25 Sep 2007	Details of hard and soft landscaping and ecological habitat creation pursuant to Conditions 30 31 34 35 and 33/36 of the Department of Trade and Industry consent (Section 36 of the Electricity Act 1989) dated 15th June 2006 for the construction and operation of an Energy from Waste Power Station.	Approved
99/02388/CIRC08	05 Jul 2007	Details of Remediation Method Statement pursuant to Condition 25 of the Department of Trade and Industry consent (Section 36 of the Electricity Act	Approved

Planning Reference	Date Determined	Proposal	Status
		1989) dated 15th June 2006 for the construction and operation of an Energy from Waste Power Station.	
99/02388/CIRC09	04 Jan 2008	Details of a scheme of works for the disposal of foul drainage pursuant to Condition 24 of the Department of Trade and Industry consent (Section 36 of the Electricity Act 1989) dated 15th June 2006 for the construction and operation of an Energy from Waste Power Station.	Withdrawn
99/02388/CIRC10	09 Oct 2007	Details of a scheme of Surface Water Source Protection pursuant to Condition 22 of the Department of Trade and Industry consent (Section 36 of the Electricity Act 1989) dated 15th June 2006 for the construction and operation of an Energy from Waste Power Station.	Approved
99/02388/CIRC11	09 Oct 2007	Details of a scheme of Surface Water Drainage pursuant to Condition 21 of the Department of Trade and Industry consent (Section 36 of the Electricity Act 1989) dated 15th June 2006 for the construction and operation of an Energy from Waste Power Station.	Approved
99/02388/CIRC12	20 Jun 2007	Details of a scheme of Archaeological Investigations pursuant to Condition 49 of the Department of Trade and Industry consent (Section 36 of the Electricity Act 1989) dated 15th June 2006 for the construction and operation of an Energy from Waste Power Station.	Approved
99/02388/CIRC15	14 Nov 2007	Details of Works to Flood Defences pursuant to Condition 27 of the Department of Trade and Industry consent (Section 36 of the Electricity Act 1989) dated 15th June 2006 for the construction and operation of an Energy from Waste Power Station.	Approved

Planning Reference	Date Determined	Proposal	Status
99/02388/CIRC17	07 Feb 2008	Details of a Dust Control Scheme pursuant to Condition 12 of the Department of Trade and Industry consent (Section 36 of the Electricity Act 1989) dated 15th June 2006 for the construction and operation of an Energy from Waste Power Station.	Approved
07/11615/FUL	11 Jan 2008	Proposals for Energy from Waste Generating Station without complying with Condition 40 of permission GDBC/003/00001C-06 to allow Norman Road improvements to run in parallel with the construction of the building.	Approved
99/02388/CIRC19	08 May 2008	Details of a Foul Water Drainage scheme pursuant to Condition 24 of the Department of Trade and Industry consent (Section 36 of the Electricity Act 1989) dated 15th June 2006 for the construction and operation of an Energy from Waste Power Station.	Approved
11/00083/GPDOPD	09 Feb 2011	Notice of permitted development comprising the construction of a new 11kv micro substation.	Approved
11/01387/FUL	14 Oct 2011	Proposal under Section 73 of the Town and Country Planning Act 1990 regarding the Energy from Waste facility approved under reference 07/11615/FUL to allow movement of materials, waste and residual material following incineration between the jetty and the plant and the ash container storage area shall only take place between the hours of 6am-9pm Mondays to Saturdays except in any emergency of following a jetty outage and on Sundays between the hours of 7am-7pm.	Approved
7/11615/FULMIN	11 Jun 2012	Minor amendment to: Proposals for Energy from Waste Generating Station without complying with Condition 40 of permission GDBC/003/00001C-06 to	Approved

Planning Reference	Date Determined	Proposal	Status
		allow Norman Road improvements to run in parallel with the construction of the building.	
99/02388/CIRC24	01 Dec 2014	Application to the Secretary of State for Energy and Climate Change for consent under Section 36 of the Electricity Act 1989 to vary the consent for the energy from waste facility granted on 15 June 2006, namely variation of conditions 2, 4 and 5 under consent GDBC/003/00001c-06 to allow an increase in the maximum throughput of the facility from 670,000 tonnes per annum (t.p.a.) to 785,000 t.p.a. of waste and the option for river borne waste to be transported to the facility from the Port of Tilbury in addition to the existing network of riparian waste transfer stations in Greater London.	Approved
16/02167/FUL	04 Oct 2017	Proposal under Section 73 of the Town and Country Planning Act 1990 regarding the Energy from Waste facility approved under reference 99/02388/CIRC24 dated 13.3.2015 to amend Condition 27 to allow up to 195,000 tonnes of waste to be delivered to the development by road in any calendar year and the continued operation of the plant without compliance with conditions 10 and 30 to allow the delivery of waste by river and by road on a 24/7 basis.	Approved
16/02167/FUL01	06 Dec 2019	Details of condition 37 (low emission strategy) pursuant to planning permission ref. 16/02167/FUL for the proposal under Section 73 of the Town and Country Planning Act 1990 regarding the Energy from Waste facility approved under reference 99/02388/CIRC24 dated 13.3.2015 to amend Condition 27 to allow up to 195,000 tonnes of waste to be delivered to the development by road in any calendar year and the continued operation of	Approved

Planning Reference	Date Determined	Proposal	Status
		the plant without compliance with conditions 10 and 30 to allow the delivery of waste by river and by road on a 24/7 basis.	
15/02926/OUTM03	04 Dec 2020	Details of condition 13 (staff facilities) and 29 (refuse and recycling) pursuant to planning permission 15/02926/OUTM for outline application for the construction of a data centre (Use Class B8), sub-stations, formation of new access, car parking and landscaping.	Approved
20/03208/FUL	09 Dec 2020	Installation, operation and maintenance of a battery energy storage system on land at Riverside Resource Recovery Facility, Norman Road, Belvedere.	Approved
16/02167/FUL02	24 Aug 2021	Details of condition 31 (Combined heat and power feasibility) pursuant to planning permission 16/02167/FUL for the proposal under Section 73 of the Town and Country Planning Act 1990 regarding the Energy from Waste facility approved under reference 99/02388/CIRC24 dated 13.3.2015 to amend Condition 27 to allow up to 195,000 tonnes of waste to be delivered to the development by road in any calendar year and the continued operation of the plant without compliance with conditions 10 and 30 to allow the delivery of waste by river and by road on a 24/7 basis.	Approved
16/02167/FUL03	27 Jan 2022	A scheme for the provision of the necessary plant and pipework pursuant to condition 31 (Combined Heat and Power) pursuant to planning permission 16/02167/FUL for the proposal under Section 73 of the Town and Country Planning Act 1990 regarding the Energy from Waste facility approved under reference 99/02388/CIRC24 dated 13.3.2015 to amend Condition 27 to allow up to 195,000 tonnes of waste to be delivered to the development by road in any calendar year and the continued operation of the plant without	Approved

Planning Reference	Date Determined	Proposal	Status
		compliance with conditions 10 and 30 to allow the delivery of waste by river and by road on a 24/7 basis.	
22/00728/FUL	08 Jul 2022	Hybrid application for a phased development comprising (Phase 1) full planning permission for the installation of a district heat network pipeline in Norman Road connecting to Riverside Resource Recovery Facility; and (Phase 2) outline planning permission (all matters reserved) for the provision of a bridge carrying a district heat network pipeline over the ditch to the south of Norman Road with a pedestrian walkway structure above the bridge, decked area and associated alterations and improvements around the existing pedestrian gate at the south west of Norman Road and associated works.	Approved
SI2020/419	09 Apr 2020	The Riverside Energy Park Order 2020 was made by the Secretary of State on 9th April 2020. This has been amended by the Riverside Energy Park (Correction) Order 2021 which came into force on 10 March 2021 and the Riverside Energy Park (Amendment) Order 2023, which came into force on 17 February 2023. The ground investigation requirement for this application has been discharged.	Approved

5.5. UNEXPLODED ORDNANCE

- 5.5.1. The Zetica Bomb Risk Maps (available from the Zetica Limited website) have been reviewed to provide a preliminary assessment of potential Unexploded Ordnance (UXO) risks. The maps indicated that the Site is within a '**High**' risk area from UXO.
- 5.5.2. A Detailed UXO Threat Assessment Report should be completed for the Site, prior to any intrusive work being undertaken so that UXO mitigation can be arranged as required.
- 5.5.3. A copy of the Zetica Bomb Risk map is included in **Annex J**.

6. RISK ASSESSMENT

6.1. PRELIMINARY CONCEPTUAL SITE MODEL

- 6.1.1. The Preliminary Conceptual Site Model (CSM) is based upon the environmental conditions of the Site as described in the previous sections. The Site will be subject to soil and ground disturbance as a result of the Proposed Scheme. Therefore, it is considered appropriate that the CSM is developed to reflect the nature of intrusive works and a commercial land use scenario.
- 6.1.2. The assessment follows a risk-based approach; with the potential environmental risk assessed qualitatively using the 'source-pathway-receptor' contaminant linkage concept introduced in the guidance documents (principally the LCRM 2021³) on the practical implementation of the Environmental Protection Act 1990¹.
- 6.1.3. Environmental risk can be defined as the combination of the consequence of a harmful effect and the probability of its occurrence. The existence of a contaminant linkage is primarily dependant on site usage and environmental conditions. Any risks identified during a preliminary assessment, such as the ones presented in this document, are perceived risks based on the information reviewed. The risk categories presented follow guidance presented in CIRIA C552⁵. CIRIA C552⁵ defines four levels of probability and four levels of severity with relation to contaminated land, as presented in **Annex C**.
- 6.1.4. The environmental risk assessment has been carried out by identifying and evaluating the significance of the following:
- potential sources of contamination - including any actual or potentially contaminating materials and activities, located either on or in the vicinity of the Site;
 - potential receptors of contamination - including Site users, adjacent land, controlled waters; and
 - potential pathways for contamination migration - the routes or mechanisms by which contaminants may migrate from the source to the receptor.

6.2. POTENTIAL SOURCES OF CONTAMINATION

- 6.2.1. **Table 6-1** provides a summary of the potential sources of contamination that may be present at the Site, as well as the potential contaminants of concern resulting from such and their distribution across the Site.

Table 6-1: Potential Sources of Contamination

Potential Source	Potential Contaminants of Concern	Likely/Anticipated Distribution
Onsite		
Made Ground	A wide range of contaminants including heavy metals, metalloids, organics, inorganics, hazardous gases (methane and carbon dioxide), TPHs, PAHs, VOCs, SVOCs and asbestos.	Site wide
Marshland and Alluvium (including peat deposits)	Ground gases including methane, carbon dioxide and hydrogen sulphide.	Site wide
Current and Historical Dock / Wharf / Jetty activities	Metals, metalloids, PAHs, TPHs, solvents, VOCs, SVOCs and asbestos.	Northern area adjacent to the River Thames
Historical Manure Works, Bovril Mills, Borax Works, Unspecified Commercial / Industrial Land and Works	A wide range of contaminants including heavy metals, metalloids, organics, inorganics, hazardous gases (methane, carbon dioxide and hydrogen sulphide), TPHs, PAHs, VOCs, SVOCs, asbestos, pathogens.	Northern and central area of the Site
Historical Railway sidings	Hydrocarbons, PAHs, heavy metals, VOCs, asbestos.	Northeastern area (landside)
Historical Magazine	UXO.	Northeastern area (landside)
Historical Sand/Gravel Pits, Unspecified Pits, Heaps and Refuse Heaps	Metals, metalloids, PAHs, TPHs, VOCs, SVOCs, asbestos containing materials, ground gases (methane, carbon dioxide, hydrogen sulphide), pathogens.	Site wide

Potential Source	Potential Contaminants of Concern	Likely/Anticipated Distribution
Historical Fish, guano and oil works	Ground gases (methane, carbon dioxide, hydrogen sulphide), hydrocarbons, PAHs, heavy metals, asbestos containing materials, pathogens.	Northern area of the Site (landside)
Riverside 1	Metals, metalloids, PAHs, TPHs, VOCs, SVOCs, asbestos.	Northern area of the Site (landside)
Electrical Energy Features	PCBs, hydrocarbons.	Northern and southern areas (landside)
Historical Tanks	Hydrocarbons, PAHs.	Northern area of the Site (landside)
Contaminated River Channel Deposits / Licensed Discharge Consents to the River Thames for Trade Discharges – Site Drainage and Historical Sewage	TPHs, heavy metals, metalloids, PAHs, organics and inorganic compounds, pathogens.	Northern area of the Site (landside)
Fire Fighting Run-off (2005)	Firefighting agents including Perfluoroalkyl and polyfluoroalkyl substances (PFAS) used in firefighting foams.	Site wide
Offsite		
Electricity Substations	PCBs, hydrocarbons.	Surrounding land
Made Ground	Ground gases (methane, carbon dioxide, hydrogen sulphide), hydrocarbons, PAHs, VOCs, SVOCs, heavy metals, metalloids and asbestos containing materials.	Surrounding land

Potential Source	Potential Contaminants of Concern	Likely/Anticipated Distribution
Surrounding Industrial / Commercial activities including Powder Magazine, Railway Sidings, COMAH Site (former agricultural chemical company), Unspecified Works, Unspecified Depot, Chimneys, Marshland, Sewage Works, Tanks.	Heavy metals, metalloids, organics, inorganics, hazardous gases (methane, carbon dioxide, hydrogen sulphide), TPHs, PAHs, VOCs, SVOCs, agrochemicals, asbestos and pathogens.	Surrounding land
Offsite Pollution Incidents	PFOS/PFAS, VOCs, heavy metals (from sewage treatment chemicals), inorganic compounds, pathogens.	Surrounding land and water
Licensed Emissions of Regulated Substances to Controlled Waters from Thames Water Utilities Ltd (approximately 264m west)	Asbestos, benzo(b)fluoranthene, naphthalene, arsenic, cadmium, mercury, phosphorus, organotin compounds, phenols, halogenated compounds, fluorides, benzo(a)pyrene, zinc, chloroform, chlorides, Brominated diphenylethers - penta-, octa- and deca- BDE, copper, Dichloromethane (DCM) (Methylene chloride), fluoranthene, Nonylphenols and nonylphenol ethoxylates, octylphenols and octylphenol ethoxylates, cyanides, nickel, nitrogen, anthracene, dioxins and furans, indeno(1,2,3-cd)pyrene, chromium, di(2-ethylhexyl)phthalate (DEHP), lead.	River Thames

6.3. POTENTIAL PATHWAYS

6.3.1. Potential Pathways include:

- direct/dermal contact, ingestion or inhalation of soil bound contaminants/dust;
- inhalation of vapours associated with volatile organic compounds;
- inhalation of respirable asbestos fibres;
- vertical migration of contaminants into groundwater from overlying soil followed by lateral migration of groundwater to the wider environment including nearby surface water features;
- migration of hazardous gases through groundwater and pore spaces within soils/fissures within rocks;
- migration of contaminated groundwater through preferential pathways such as utility service trenches/ducts;
- direct/dermal contact with potentially impacted groundwater; and
- direct/dermal contact with potentially impacted surface waters of the River Thames and onsite underground and surface level inland rivers.

6.4. POTENTIAL RECEPTORS

6.4.1. The following are considered to be potential receptors:

- **Human Health:**
 - Site users and staff (excluding construction staff);
 - construction staff; and
 - third party neighbours (commercial, hospitality, residential and members of the public).
- **Controlled Waters:**
 - groundwater within Secondary Undifferentiated Aquifers, Secondary A Aquifers, and Principal Aquifer; and
 - surface water features – River Thames and other surface water features (considered in **Chapter 11: Water Environment and Flood Risk (Volume 1)**).
- **Buildings and Services:**
 - Site users and staff (excluding construction staff);
 - construction staff; and
 - third party neighbours (commercial, hospitality, residential and members of the public).
- **Ecological Receptors:**
 - Flood plain associated with Marsh Dykes;
 - Thames Marshes SSSI; and
 - Crossness LNR.

- Preliminary Conceptual Site Model (CSM).

6.4.2. **Table 6-2** provides an evaluation of the potential contaminant linkages that are considered to be plausible on the basis of the information currently available for the Site and the proposed end use.

Table 6-2: Plausible Contaminant Linkages

Potential Contaminant Sources	Potential Pathways	Potential Receptors	Probability	Consequence	Comments / Risk
Onsite					
<p>PAHs, TPHs, hydrocarbons, heavy metals, solvents, inorganics, organic matter, VOCs, PCBs, UXO, ground gases, asbestos resulting from:</p> <ul style="list-style-type: none"> ● Made Ground ● Marshland ● Dock/wharf activities ● Manure works, Bovril Mills, unspecified commercial/ industrial land and works ● Railway sidings ● Magazine ● Historical sand/gravel pits, unspecified pits, 	<p>Dermal contact; Direct/indirect ingestion of contaminants; and Inhalation of dust/asbestos/ ground gases.</p>	<p>Future Site users; Third party neighbours.</p>	<p>Likely</p>	<p>Medium</p>	<p>MODERATE/LOW RISK</p> <p>Previous ground investigations have targeted various parcels of land at the Site. Some remediation work has been completed however, data gaps exist for those areas where no ground investigation has been undertaken to date and unknown contamination could be present. Elevated concentrations of metals, metalloids, organics and asbestos could be present as previously found.</p> <p>Gas monitoring completed by WSP in 2017 recorded elevated ground gases (carbon dioxide and methane) and classified the two parcels of land to the west of Norman Road as ‘Characteristic Situation 4 (CS4) – Moderate to High Risk’.</p> <p>The commercial nature of the Proposed Scheme means that future Site users</p>

Potential Contaminant Sources	Potential Pathways	Potential Receptors	Probability	Consequence	Comments / Risk
<p>heaps and refuse heaps</p> <ul style="list-style-type: none"> • Fish, Guano and Oil Works • Riverside 1 • Electrical energy features • Historical tanks • Contaminated river channel deposits/ licensed discharge consents to the River Thames for trade discharges – site drainage and historically sewage. • Fire fighting run-off 					<p>should be at a reduced risk of direct exposure from potential contaminants of concern within the underlying ground post construction. However, it is likely that new buildings will require protection from ground gas and potentially vapour ingress.</p> <p>In accordance with the Outline CoCP (Document Reference 7.4) the full CoCP(s) will detail how activities such as surface and silt run-off, covering of stockpiles to stop contaminated dust/ particulates becoming airborne will be appropriately managed during the construction phase and thus mitigate potential adverse impact to third party neighbours. Compliance with the Outline CoCP (Document Reference 7.4) and subsequent full CoCP(s) should reduce the risk to Low.</p>
		Construction workers and future	Likely	Minor	<p>MODERATE/LOW RISK</p> <p>Contaminants of concern including asbestos have been detected within near surface soils and could be present</p>

Potential Contaminant Sources	Potential Pathways	Potential Receptors	Probability	Consequence	Comments / Risk
		maintenance workers			<p>across other areas of the Proposed Scheme that have not been investigated to date.</p> <p>During the construction phase, the risk to construction workers from asbestos contaminated soils is considered to be Moderate. Adherence to the Site's Construction Design Management (CDM) and Health & Safety (H&S) rules including use of appropriate PPE should mitigate against exposure to contaminated soils, reducing the risk to Low.</p> <p>The risk to future maintenance workers is considered to be Moderate to Low. Maintenance work requiring contact with the subsurface should be managed accordingly to protect those carrying out the work.</p> <p>In accordance with the Outline CoCP (Document Reference 7.4) the full CoCP(s) will detail how activities such as surface and silt run-off, covering of stockpiles to stop contaminated dust/</p>

Potential Contaminant Sources	Potential Pathways	Potential Receptors	Probability	Consequence	Comments / Risk
					<p>particulates becoming airborne etc will be appropriately managed during any future construction.</p> <p>The risk to third party neighbours is considered to be Low with the implementation of the Outline CoCP (Document Reference 7.4) and subsequent full CoCP(s).</p>
	<p>Direct contact</p> <p>Permeation of hydrocarbons through plastic pipes</p>	<p>Below ground structures (e.g. potable water supply pipes)</p> <p>Buried concrete</p>	Likely	Mild	<p>MODERATE/LOW RISK</p> <p>Organic contamination including hydrocarbons within the Made Ground could be located beneath the Site. A high-water table could allow migration of contaminants via service trenches.</p> <p>A new water pipe risk assessment will likely be required in accordance with the UK Water Industry Research (UKWIR) published “Guidance for the Selection of Water Supply Pipes to be used in Brownfield Sites” (Ref 10/WM/03/21; the ‘UKWIR Guidance’).</p> <p>Contaminant concentrations within soils and groundwater could present</p>

Potential Contaminant Sources	Potential Pathways	Potential Receptors	Probability	Consequence	Comments / Risk
					aggressive ground conditions for new subsurface concrete structures.
	Root uptake	Plants and vegetation	Low Likelihood	Mild	<p>LOW RISK</p> <p>Contamination present in Made Ground onsite may be a risk to future planting and landscaping.</p> <p>The physical and chemical properties of Made Ground make it unlikely to be suitable for reuse in clean cover.</p> <p>Risk reduced to low if clean certified topsoil and subsoil is used for new areas of soft landscaping.</p>
	Surface run-off processes Windblown contamination	River Thames Local water courses and drainage Pond	Likely	Medium	<p>MODERATE RISK</p> <p>The Proposed Scheme is adjacent to the River Thames and is therefore at risk of contaminated surface water entering this surface water body. Other surface water features are located within the Site Boundary.</p> <p>Previous ground investigations have identified contaminants of concern within groundwater though further detailed quantitative risk assessment</p>

Potential Contaminant Sources	Potential Pathways	Potential Receptors	Probability	Consequence	Comments / Risk
					<p>considered the risk posed to the River Thames to be Low from shallow groundwater. However, not all areas of the Site have been investigated and data gaps remain.</p> <p>The Outline CoCP (Document Reference 7.4) and subsequent and full CoCP(s) will include details of how activities such as surface and silt run-off, covering of stockpiles to stop contaminated dust/ particulates becoming airborne will be appropriately managed during the construction phase.</p> <p>Compliance with the Outline CoCP (Document Reference 7.4) and subsequent full CoCP(s) should reduce the risk to Low.</p>
	Leaching of contaminants from contaminated soil and vertical migration to groundwater.	Superficial Secondary Undifferentiated Aquifer (Alluvium);	Likely	Mild	<p>MODERATE/LOW RISK</p> <p>Previous WSP controlled waters detailed quantitative risk assessment for central and southern areas of the</p>

Potential Contaminant Sources	Potential Pathways	Potential Receptors	Probability	Consequence	Comments / Risk
		Secondary A aquifer (Blackheath Member, Lambeth Group, Thanet Formation); Principal Aquifer (Chalk Group); River Thames Surface water features			<p>Proposed Scheme (Work No. 8) reported the following findings:</p> <ul style="list-style-type: none"> the Taplow Gravels were found to be in hydraulic connectivity with the River Thames; the shallow groundwater in the Alluvium was found to be largely stagnant, although is influenced by shallow surface drains and the flood protection measures along the Thames; groundwater flow direction was calculated to be to the north/northwest within both the Alluvium and the Taplow Gravel; elevated concentrations of salt were identified in shallow groundwater indicating that there was likely saline intrusion from the Thames. <p>The superficial aquifer is less vulnerable to groundwater pollution but will still support the vertical and lateral migration of groundwater where more</p>

Potential Contaminant Sources	Potential Pathways	Potential Receptors	Probability	Consequence	Comments / Risk
					<p>granular soils are present and thus contaminants. This could impact on the deeper Thanet Formation and Chalk aquifers.</p> <p>Existing and future hard landscaping/ building footprints across the Proposed Scheme will reduce infiltration of precipitation before and post development.</p> <p>The Outline Drainage Strategy (Document Reference 7.2) details how new drainage will capture surface run-once operational.</p> <p>A piling risk assessment would be required to prevent pollution of deeper groundwater bodies.</p>
	<p>Vertical migration of gas through unsaturated soil pore space.</p> <p>Ingress into buildings via service</p>	<p>Onsite and third party below ground services and building structures.</p>	<p>Low Likelihood</p>	<p>Medium</p>	<p>MODERATE/LOW RISK</p> <p>Gas monitoring completed by WSP in 2017 recorded elevated ground gases (carbon dioxide and methane) and classified the two parcels of land to the west of Norman Road as 'Characteristic</p>

Potential Contaminant Sources	Potential Pathways	Potential Receptors	Probability	Consequence	Comments / Risk
	penetrations, floor construction and cracks, wall cavities. Resulting in accumulation in enclosed spaces within buildings. Migration via preferential pathways such as below ground service trenches.				Situation 4 (CS4) – Moderate to High Risk'. Accumulation of hazardous gases in confined spaces may increase the risk of explosion from methane and asphyxiation by carbon dioxide under extreme weather conditions such as low and falling atmospheric pressure.
Offsite (within the Study Area)					
PAHs, TPHs, hydrocarbons, heavy metals, solvents, inorganics, organic matter, VOCs, PCBs, ground gases, asbestos resulting from: <ul style="list-style-type: none"> • Electricity substations; • Made Ground; 	Surface run-off processes. Vertical and lateral migration of gases and vapours through unsaturated soil pore space. Migration of gases, vapours and	Site users Third party neighbours Maintenance and construction workers Buildings/ structures Controlled Waters	Low Likelihood	Medium	MODERATE/LOW RISK Nearby industrial land use may act as a source of a broad range of contaminants. The superficial and bedrock aquifers would facilitate the vertical and lateral migration of hazardous gases, vapours and impacted groundwater to within the boundary of the Proposed Scheme.

Potential Contaminant Sources	Potential Pathways	Potential Receptors	Probability	Consequence	Comments / Risk
<ul style="list-style-type: none"> • Surrounding industrial/ commercial activities including powder magazine, railway sidings, COMAH site (former agricultural chemical company), unspecified works, unspecified depot, chimneys, marshland, sewage works, tanks, electricity substations; • Offsite pollution incidents; and • Licensed emissions of regulated substances to controlled waters from Thames Water Utilities Ltd (264m west). 	<p>groundwater via preferential pathways such as below ground service trenches.</p> <p>Migration of gases and vapours within impacted groundwater with subsequent volatilisation, inhalation and ingress into enclosed built structures.</p> <p>Lateral migration of contaminants within impacted groundwater with subsequent direct contact and root uptake.</p>	<p>Plants and vegetation</p>			

7. CONCLUSIONS AND RECOMMENDATIONS

7.1.1. Based on the findings of the desk-based assessment, WSP makes the following conclusions and recommendations in the context of the Proposed Scheme.

7.2. CONCLUSIONS

7.2.1. The earliest available historical maps from the 1860s indicate that the Site comprised areas of marshland. Thereafter the maps show in the:

- 1880s - some development of the Site occurred including a manure works and gunpowder store;
- Late 1880s - the manure works had been replaced by Belvedere Mills and the Thames Fish, Guano and Oil works was located to the west of the Mills;
- 1900s - A borax mill replaced Belvedere Mills by the 1900s and allotment gardens were located to the south of the mill;
- 1940s-1950s - extensive redevelopment including the introduction of unspecified works, sand/gravel pits, electricity pylons, drainage and a pontoon with two jetties (which reflected a similar arrangement to the Middleton Jetty);
- 2000s - closure of the borax mill, infilling/levelling of the sand/gravel pits, erection of depots and a tank within the north, an electricity substation, and unspecified works in the south; and
- 2008 - construction of Riverside 1, including Middleton Jetty, commenced and the former works within the Creekside/Gannon land had been demolished.

7.2.2. The surrounding land has remained commercial and industrial in use.

7.2.3. Previous ground investigation has targeted various parcels of land within the Site. Some remediation work has been completed; however, data gaps exist for those areas where no ground investigation has been undertaken to date and unknown contamination could be present. Elevated concentrations of metals, metalloids, organics and asbestos could be present as previously found.

7.2.4. Superficial deposits at the Site consist of the Alluvium (Secondary Undifferentiated Aquifer) and Tidal River Deposits (unproductive strata). The bedrock is formed by the London Clay Formation (unproductive strata), Blackheath Member of the Harwich Formation, Lambeth Group and Thanet Formation (Secondary A Aquifers) that in turn overlie the Upper Chalk (Principal Aquifer). Made/Infilled Ground is known to be present across parts of the Proposed Scheme that could potentially contain a broad range of contaminants.

- 7.2.5. Historical borehole data indicates that much of the Site is likely to be underlain by cohesive Alluvium up to 10.50m bgl, which then becomes granular. Deposits of peat were recorded within the cohesive Alluvium. Granular deposits will be relatively more permeable than the cohesive Alluvium. Therefore, appropriate measures must be undertaken to minimise groundwater pollution and protect the underlying bedrock aquifers. The current risk to controlled waters is **Moderate/Low Risk**.
- 7.2.6. Contaminants of concern including asbestos have been identified within soils within the boundary of the Proposed Scheme. It is expected that construction and maintenance workers will follow the CDM/H&S procedures to protect them from exposure to contaminated ground and the risk is therefore reduced from Moderate to **Low**.
- 7.2.7. End users of the Proposed Scheme are considered to be at a **Moderate to Low Risk** of exposure to potentially contaminated ground. Future hardstanding and building footprints will provide a physical barrier to direct exposure; however, the gas regime for part of the Proposed Scheme has been characterised as CS4 'Moderate to High Risk' from ground gas.
- 7.2.8. There is a **Low to Moderate Risk** of exposure to potential contaminants related to industrial/commercial activities to current Site users and third party neighbours during redevelopment works due to the potential release of wind-borne contaminants, surface run-off and mud tracked on to local roads. The risk reduces to **Low** with the implementation of the **Outline CoCP (Document Reference 7.4)** and subsequent full CoCP(s).
- 7.2.9. Additionally, the potential for contamination to migrate offsite to the surrounding surface water features will increase and will require appropriate environmental management. The River Thames must be protected from environmental pollution incidents that could occur if future construction activity is not appropriately managed. The risk is considered **Low** with the implementation of the **Outline CoCP (Document Reference 7.4)**, and subsequent full CoCP(s). The **Outline Drainage Strategy (Document Reference 7.2)** details how new drainage will capture surface run-off once operational.
- 7.2.10. The risk to future buildings and structures is **Moderate to Low Risk** and underlying soils should be analysed to support an aggressive ground conditions assessment.
- 7.2.11. The risk to future areas of soft landscaping is considered **Low Risk** as a suitable growing medium (certified clean topsoil/subsoil) should be imported for use in the Proposed Scheme.
- 7.2.12. The preliminary UXO risk is indicated to be 'High'. As the Site is within a 'High' risk area from UXO, a detailed UXO assessment will be undertaken in accordance with CIRIA guidelines²⁹, prior to the ground investigation. The detailed UXO assessment would provide a comprehensive, in-depth desk study to determine the risk level of potentially encountering UXO thereafter informing the proposed construction and


allowing selection of the appropriate mitigation for the Proposed Scheme. The requirement for a detailed UXO assessment is included in the **Outline CoCP (Document Reference 7.4)**.

7.3. RECOMMENDATIONS

- 7.3.1. On the basis of this Phase 1 PRA it is recommended that a ground investigation is undertaken prior to construction to allow the assessment of identified plausible contaminant linkages for an updated contaminated land assessment compliant with LCRM³. The ground investigation will include targeting the gaps in information identified above, reassessing areas that have been previously investigated where necessary and determining if remedial measures may be required.
- 7.3.2. The ground investigation should be compliant with current UK guidance e.g. BS10175⁴. The results of the ground investigation would be interpreted and assessed within a Generic Quantitative Risk Assessment (GQRA) to allow the assessment of identified plausible contaminant linkages and if remedial measures may be required. Geotechnical testing could also be undertaken to inform foundation design for potential future redevelopment. It is recommended that the ground investigation is designed based on the following technical objectives:
- characterisation of the ground and groundwater conditions underlying the Site;
 - soil and groundwater sampling for contamination and geotechnical testing;
 - groundwater and gas monitoring and sampling across the Site;
 - provision of a GQRA to assess risks to human health and controlled waters; and
 - an assessment of potential foundation design and geotechnical constraints.
- 7.3.3. The ground investigation would be undertaken prior to the construction phase as secured by DCO requirement within the **Draft DCO (Document Reference 3.1)** and set out in the **Outline CoCP (Document Reference 7.4)**. As shown in **Figure 17-3: Connections between the Ground Conditions and Soils Mitigation Tasks and Design (Volume 1)**, this is likely to be led by geotechnical requirements but would include geo-environmental sampling of terrestrial soils, marine sediments, groundwater and surface water.

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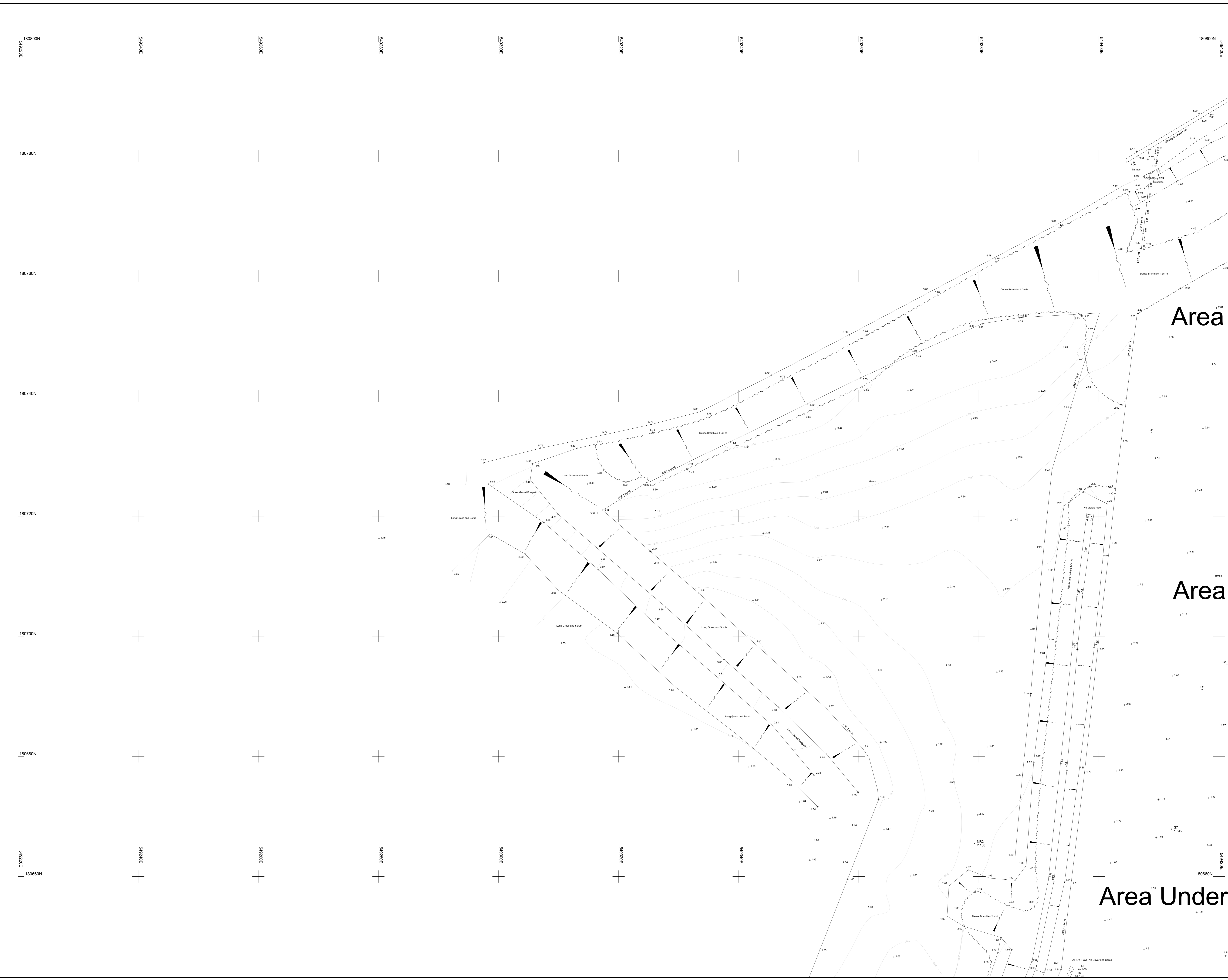
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Annexes

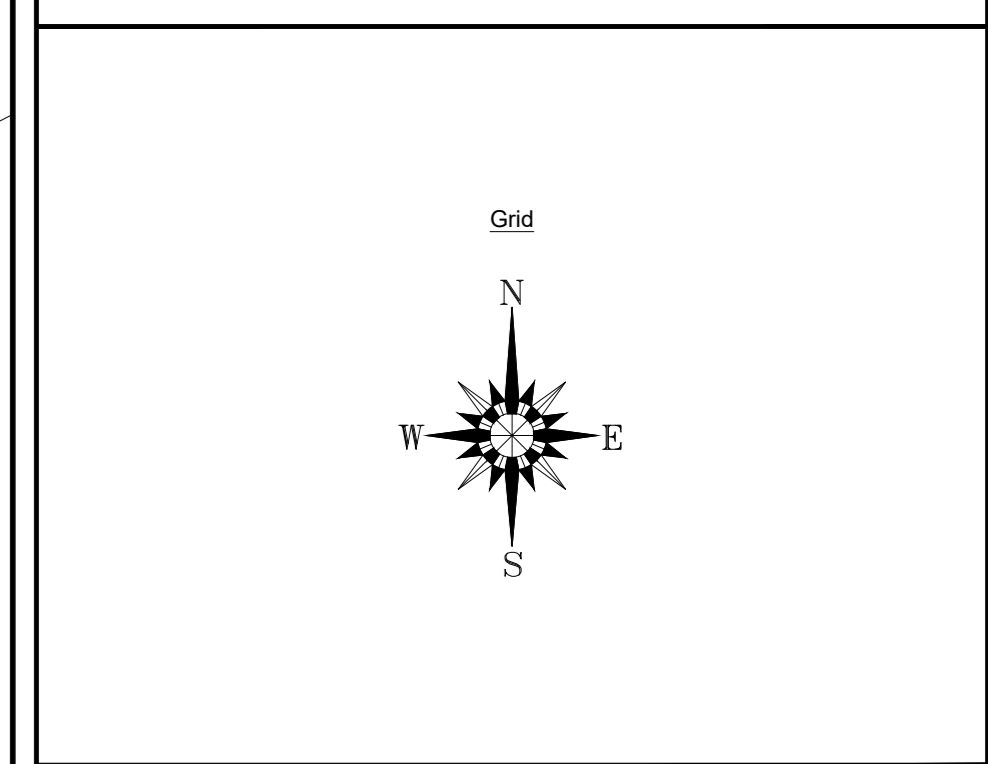
Annex A

FIGURES AND DRAWINGS



Sheet Layout

23169-100-A	23169-100-B	23169-100-C	23169-100-D
23169-100-E	23169-100-F	23169-100-G	23169-100-H
23169-100-J	23169-100-K	23169-100-L	
	23169-100-M	23169-100-N	
	23169-100-P	23169-100-Q	
23169-100-R	23169-100-S	23169-100-T	



LEGEND

ABBREVIATIONS (WHERE APPLICABLE)

ARCH HEAD HEIGHT	AHH	MARKER	MOR
ARCH SPRINGER HEIGHT	AAS	MONITORING WELL	MW
ARCH SPRINGER LEVEL	ASL	NOTICE BOARD	NB
ARCH VALVE	AV	NAME PLATING	NP
BELGIA BRACON	BB	OVERHEAD WIRES	OW
BOLLARDS	B	PARKING METER	PM
BRICKWORK	BR	ROOF LEVEL	RL
BRITISH TELECOM BOX	BTB	ROAD SIGN	RS
BRITISH TELECOM MANHOLE	BTM	ROOFING EAVE	RE
BROWWORK	BRW	ROAD SIGN	RS
BUS STOP	BS	RAIN WATER PIPE	RWP
CABLE MARKER	CM	RAILING WALL	RW
COVER LEVEL	CL	SCOFF LEVEL	SL
CURB	C	SOFT LEVEL	SFL
COLUMN	COL	STOP COCK	SC
CONCRETE POST	CP	STRUCTURAL SLAB LEVEL	SSL
EAVES LEVEL	EAV	THRESHOLD LEVEL	TL
ELECTRICAL COVER	ELC	TRIP	TR
ELECTRICAL CONTROL BOX	ECB	TRIP	TR
ELECTRICITY POLE	EP	TRIP	TR
EARTH ROD	ER	TRIP	TR
FLOUNDER BED	FB	TRIP	TR
FINISHED FLOOR LEVEL	FFL	TRIP	TR
FIRE HYDRANT	FH	TRIP	TR
FLOOR LEVEL	FL	TRIP	TR
FLAG STAFF	FS	TRIP	TR
GAS PIPE	GP	TRIP	TR
GAS VALVE	GV	TRIP	TR
GATE STOP	GS	TRIP	TR
INSPECTION COVER	IC	TRIP	TR
INVERT LEVEL	L	TRIP	TR
LAMP POST	LP	TRIP	TR
		TRIP	TR

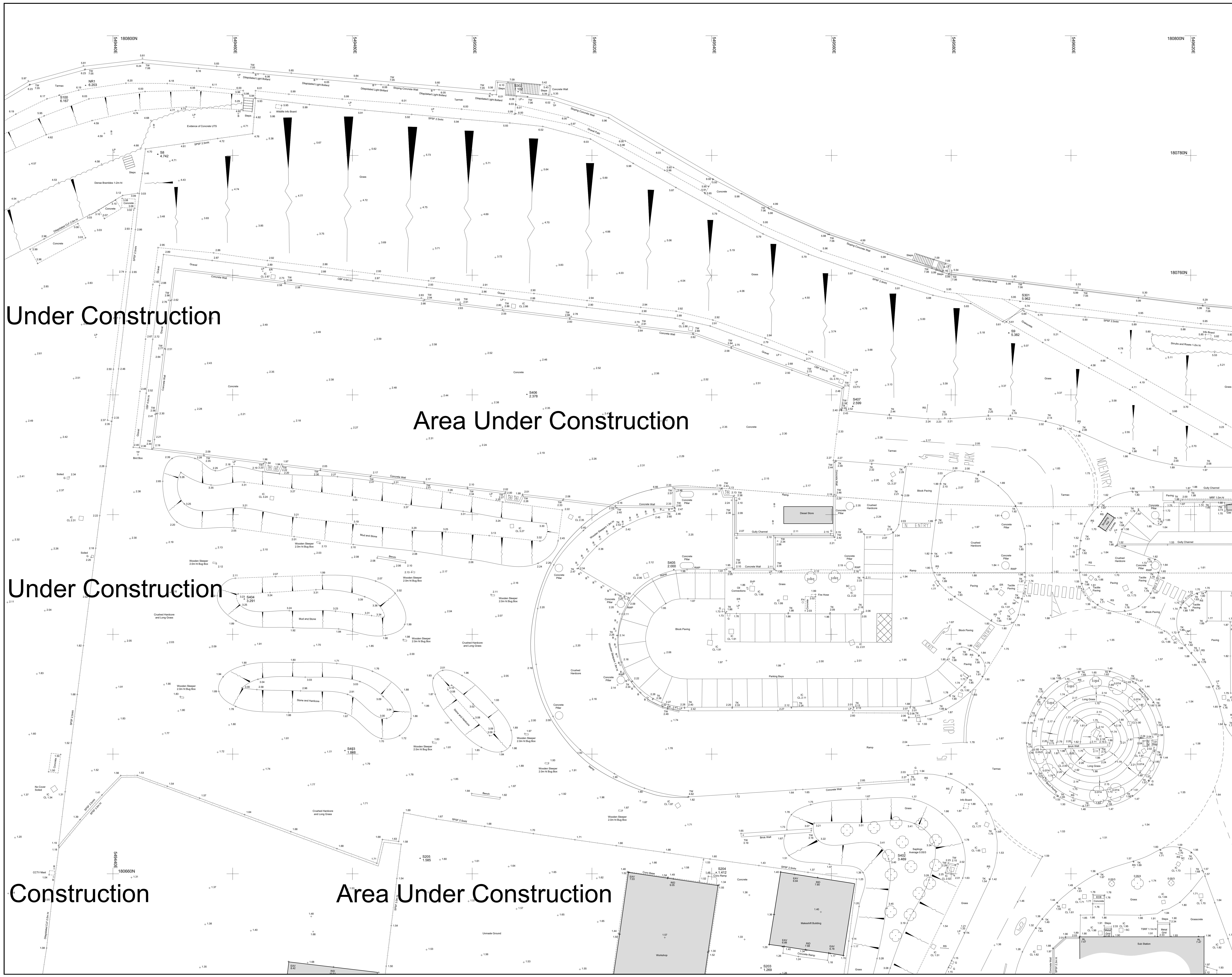
REV.	NOTES	DWN	DATE
A			

Notes:
 Grid and levels relate to OS GPS Active Network.
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 Additional Areas Added to Original Surveys 18/010 and 21/110.
 Many Ditch/Watercourse Areas Extremely Overgrown
 Levels Taken Where Possible.

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SURVEYED	LCB	WSP
DRAWN	LCB	
CHECKED	AKM	
		SCALE
		1/200 (A0 Sheet)
Norman Road, Belvedere, DA17 6JY		
TOPOGRAPHICAL SURVEY		
Job No	Rev	Drawing Number
23/169	-	23/169/100-A
Date	Dec 2023	



Under Construction

Area Under Construction

Under Construction

Area Under Construction

Construction

Sheet Layout

23169-100-A	23169-100-B	23169-100-C	23169-100-D
23169-100-E	23169-100-F	23169-100-G	23169-100-H
23169-100-J	23169-100-K	23169-100-L	
	23169-100-M	23169-100-N	
	23169-100-P	23169-100-Q	
23169-100-R	23169-100-S	23169-100-T	

Grid

LEGEND

BANKING

BUSHES & HEDGES

TREES

GATES

WALL

BUILDING

OPEN BODE BUILDING

GLASS ROOFED

CONTOURS

ABBREVIATIONS (WHERE APPLICABLE)

ARCH HEAD HEIGHT	ARM	MARKER	MOR
ARCH SPRINGER HEIGHT	ASH	MONITORING WELL	MWP
ARCH SPRINGER LEVEL	ASL	NOTICE BOARD	NB
ARCH VALVE	AV	NAME PLATING	NP
BELLS BRACKEN	BL	COVERHEAD WIRES	CPW
BOLLARD	BL	PARKING METER	PM
BRITISH TELECOM BOX	BTB	ROOF LEVEL	RL
BRITISH TELECOM MANHOLE	BTMB	ROAD SIGN	RS
BROWSE	B	ROOF LEVEL	RL
BUS STOP	BS	ROOF LEVEL	RL
CABLE MARKER	CM	ROOF LEVEL	RL
COVER LEVEL	CL	STOP COOK	SC
CONCRETE POST	CP	SOFT LEVEL	SL
EAVES LEVEL	EAV	STRUCTURAL SLAB LEVEL	SSL
ELECTRICAL COVER	ELC	TRIE STAIR	TS
ELECTRICITY CONTROL BOX	ECB	TELEPHONE CALL BOX	TCB
ELECTRICITY POLE	EP	TOP OF KERB	TK
EARTH ROD	ER	TOP OF WALL	TW
FLOOR LEVEL	FL	TRAFFIC LIGHT	TL
FLOOR BED	FB	UNABLE TO SURVEY	UTS
FLOOR LEVEL	FL	UNABLE TO SURVEY	UTS
FLAG STAFF	FS	VENT PIPE	VP
GAS PIPE	GP	WATER METER	WM
GAS VALVE	GV	WATER LEVEL	WL
GULLY	G	WATER TANK	WT
GATE STOP	GS	WASTE PIPE	WP
INSPECTOR COVER	IC	WATER TANK	WT
INVERT LEVEL	IL	WATER TANK	WT
LAMP POST	LP	WATER VALVE	WV

FENCES

BARBED WIRE FENCE	BWF	LAND LAP FENCE	LLF
CONCRETE FENCE	CF	METAL ROLLING FENCE	MLRF
CORRUGATED IRON FENCE	CIF	POST AND CHAIN FENCE	PCF
CHAIN LINK FENCE	CLF	POST AND RAIL FENCE	PRF
CHESTNUT PALING FENCE	CPF	POST AND RAIL FENCE	PRF
FENCE POST	FP	STEEL PALISADE SECURITY FENCE	SPSF
INTERLOCKED FENCE	IF	STEEL PALISADE SECURITY FENCE	SPSF
IRON RAILING FENCE	IRF	TUBULAR STEEL RAIL FENCE	TSRF

REV. NOTES

REV.	NOTES	DWN	DATE
A			

QMS ISO 9001 REGISTERED

QMS ISO 14001 REGISTERED

THE SURVEY ASSOCIATION

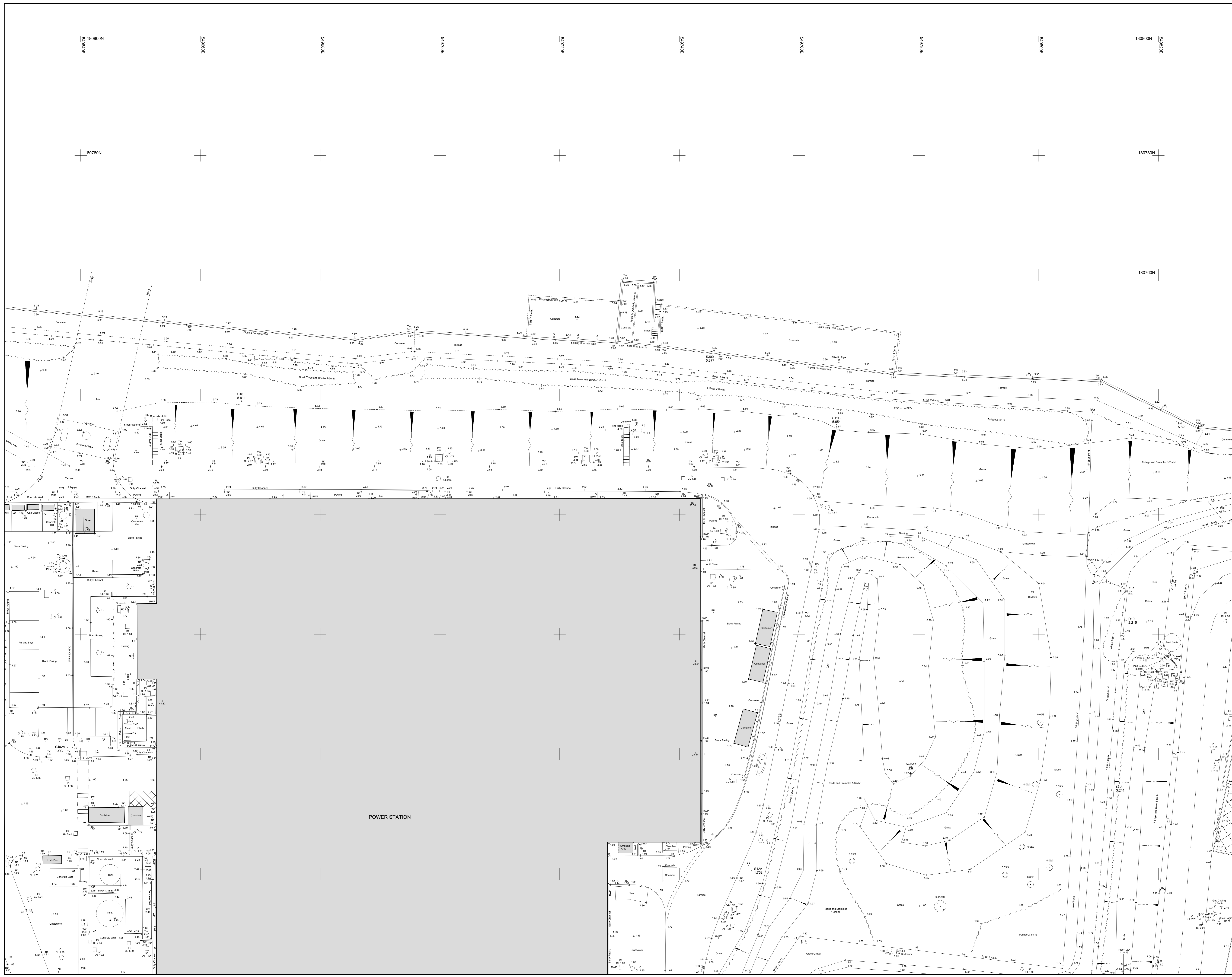
Notes:

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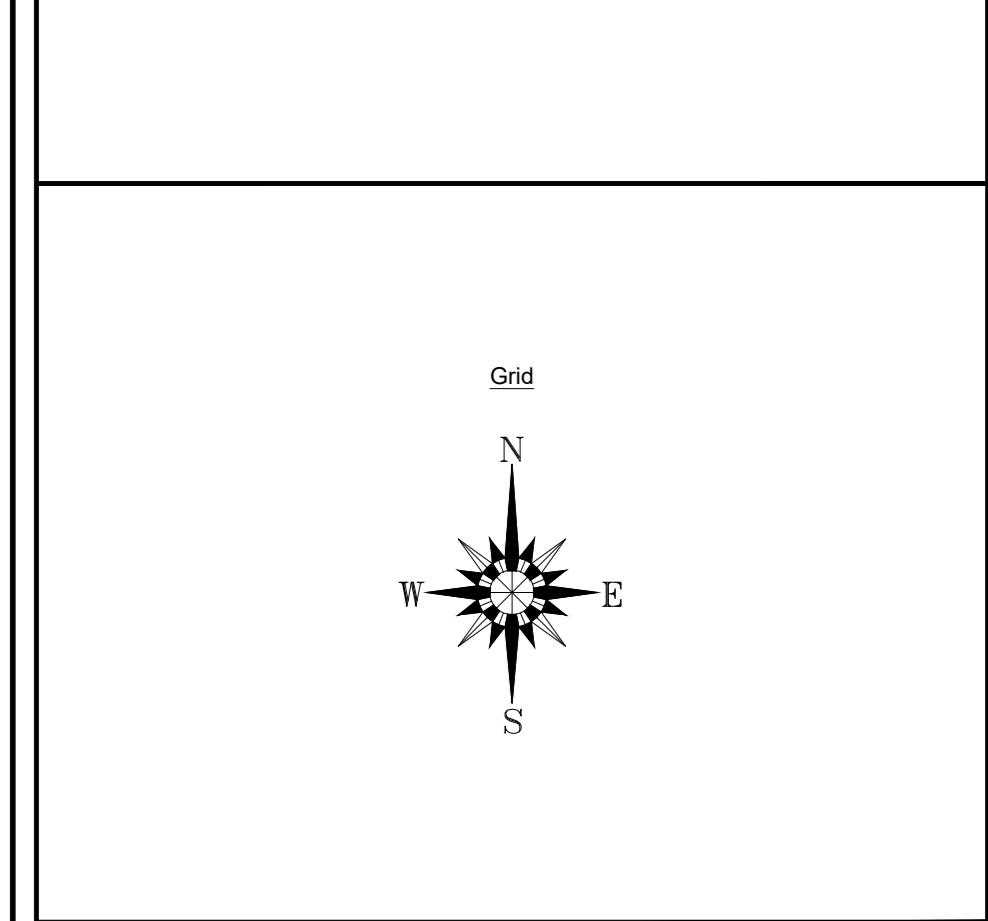
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SURVEYED	LCB	WSP
DRAWN	LCB	
CHECKED	AKM	
RICS		SCALE
		1/200 (A0 Sheet)
Norman Road, Belvedere, DA17 6JY		
TOPOGRAPHICAL SURVEY		
Job No	Rev	Drawing Number
23/169	-	23/169/100-B
Date	Dec 2023	



23169-100-A	23169-100-B	23169-100-C	23169-100-D
23169-100-E	23169-100-F	23169-100-G	23169-100-H
23169-100-J	23169-100-K	23169-100-L	
	23169-100-M	23169-100-N	
	23169-100-P	23169-100-Q	
23169-100-R	23169-100-S	23169-100-T	



LEGEND

BANKING	WALL	CONTOURS
BUSHES & HEDGES	BUILDING	GLASS ROOFED
TREES	OPEN SIDED BUILDING	
GATES		

ABBREVIATIONS (WHERE APPLICABLE)

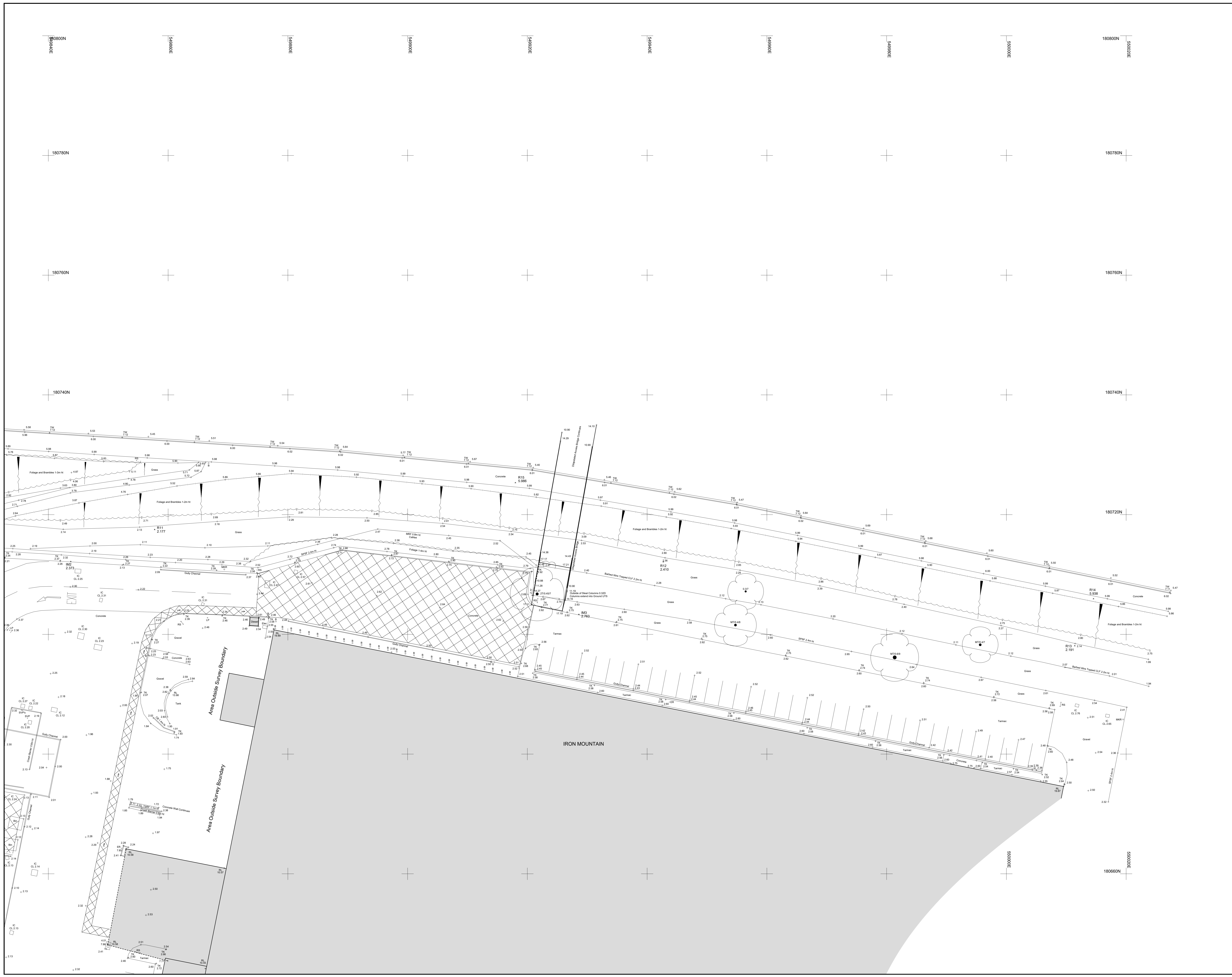
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ARCH HEAD LEVEL	AHL	MONITORING WELL	MW
ARCH SPRINGER HEIGHT	AAS	NOTICE BOARD	NB
ARCH SPRINGER LEVEL	ASL	NAME PLATING	NP
ARE VALVE	AV	OVERHEAD WIRES	OW
ARE VALVE REACTION	AVR	PARKING METER	PM
BOLLARD	B	ROAD SIGN	RS
BRITISH TELECOM BOX	BTB	ROOF LEVEL	RL
BRITISH TELECOM MANHOLE	BTM	ROOF LEVEL	RL
BROWWORK	BS	ROOF LEVEL	RL
BUS STOP	BS	ROOF LEVEL	RL
CABLE MARKER	CM	ROOF LEVEL	RL
COVER LEVEL	CL	ROOF LEVEL	RL
CABLE MARKER	CM	ROOF LEVEL	RL
CONCRETE POST	CP	ROOF LEVEL	RL
EAWS LEVEL	EAL	ROOF LEVEL	RL
ELECTRICAL COVER	ELC	ROOF LEVEL	RL
ELECTRICITY CONTROL BOX	ECB	ROOF LEVEL	RL
ELECTRICITY POLE	EP	ROOF LEVEL	RL
EARLY ROAD	ER	ROOF LEVEL	RL
FLOUNDER BED	FB	ROOF LEVEL	RL
FINISHED FLOOR LEVEL	FFL	ROOF LEVEL	RL
FIRE HYDRANT	FH	ROOF LEVEL	RL
FLOOR LEVEL	FL	ROOF LEVEL	RL
FLAG STAFF	FS	ROOF LEVEL	RL
GAS PIPE	GP	ROOF LEVEL	RL
GAS VALVE	GV	ROOF LEVEL	RL
GULLY	G	ROOF LEVEL	RL
GATE STOP	GS	ROOF LEVEL	RL
INSPECTION COVER	IC	ROOF LEVEL	RL
INVERT LEVEL	IL	ROOF LEVEL	RL
LAMP POST	LP	ROOF LEVEL	RL
BARBED WIRE FENCE	BWF	LANCH LAP FENCE	LLF
CONCRETE BOUND FENCE	CBF	METAL RAILING FENCE	MRF
CLOSE BOARD FENCE	CBF	POST AND CHAIN FENCE	PCF
CHAIN LINK FENCE	CLF	POST FENCE	PF
CHESTNUT PALING FENCE	CPF	POST AND RAIL FENCE	PRF
FENCE POST	FP	POST AND RAIL FENCE	PRF
INTERLOCKED FENCE	IF	STEEL PALISADE SECURITY FENCE	SPF
IRON RAILING FENCE	IRF	TUBULAR STEEL RAIL FENCE	TSRF

REV.	NOTES	DWN.	DATE
A			

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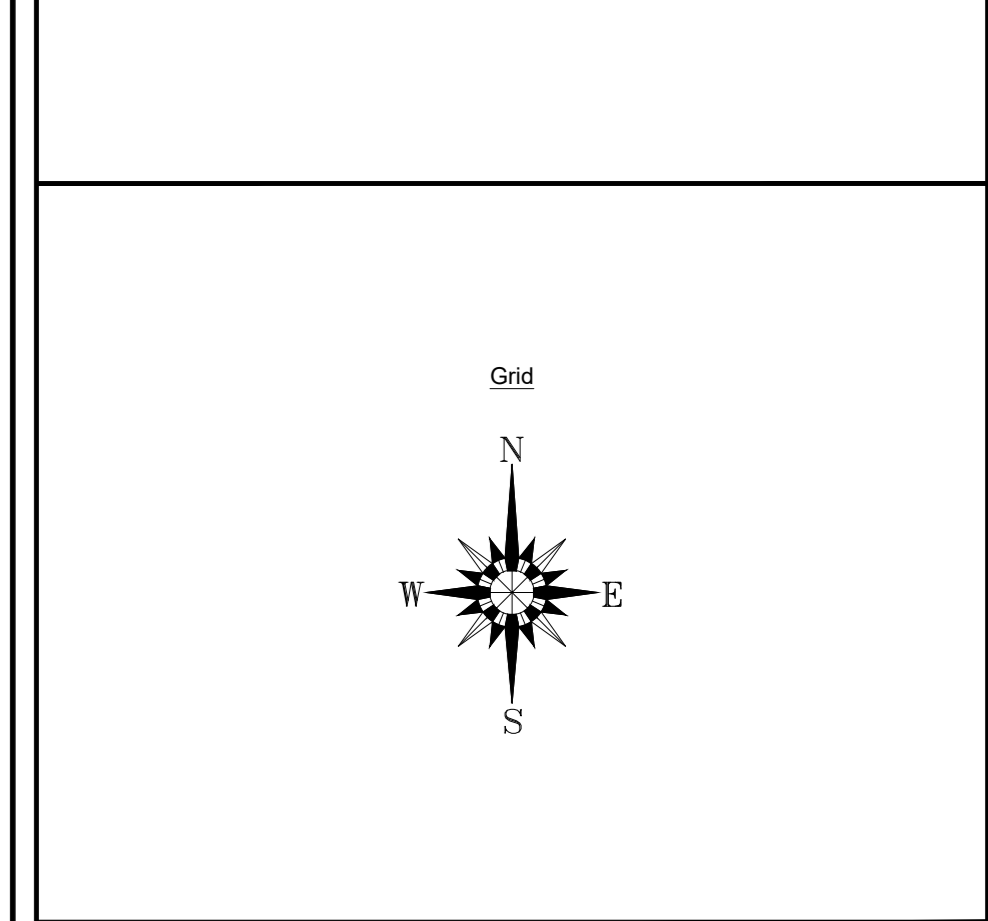
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SURVEYED	LCB	WSP
DRAWN	LCB	SCALE
CHECKED	AKM	1/200 (A0 Sheet)
RICS		
Norman Road, Belvedere, DA17 6JY		
TOPOGRAPHICAL SURVEY		
Job No	Rev	Drawing Number
23/169	-	23/169/100-C
Date	Dec 2023	



Sheet Layout

23169-100-A	23169-100-B	23169-100-C	23169-100-D
23169-100-E	23169-100-F	23169-100-G	23169-100-H
23169-100-J	23169-100-K	23169-100-L	
	23169-100-M	23169-100-N	
	23169-100-P	23169-100-Q	
23169-100-R	23169-100-S	23169-100-T	



LEGEND

BANKING	WALL	CONTOURS
BUSHES & HEDGES	BUILDING	OPEN BUILT BUILDING
TREES	GLASS ROOFED	
GATES		

ABBREVIATIONS (WHERE APPLICABLE)

ARCH HEAD LEVEL	ARCH SPRINGER HEIGHT	ARCH SPRINGER LEVEL	ARCH VALVE	BELBIA BEACON	BOLLARDS	BRICKWORK	BUS STOP	CABLE MARKER	COVER LEVEL	COVER LEVEL	CONCRETE POST	EAVES LEVEL	ELECTRICAL COVER	ELECTRICITY CONTROL BOX	ELECTRICAL POLE	EARTH ROD	FLOWER BED	FINISHED FLOOR LEVEL	FIRE DRAIN	FLOOR LEVEL	FLAG STAFF	GAS PIPE	GAS VALVE	GALLY	GATE STOP	INSPECTION COVER	INVERT LEVEL	LAMP POST
ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH	ARKH

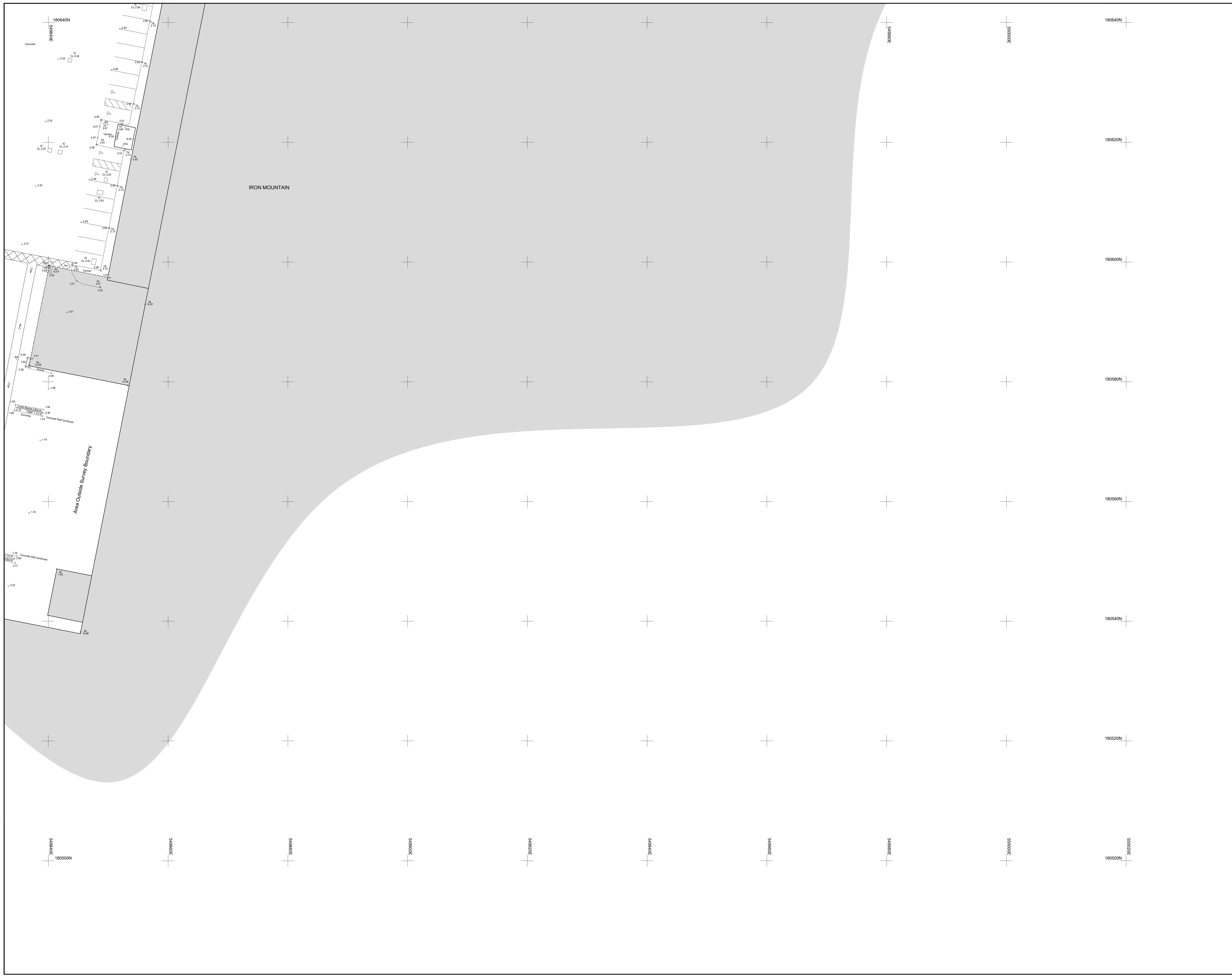
REV.	NOTES	DWN	DATE
A			

Notes:
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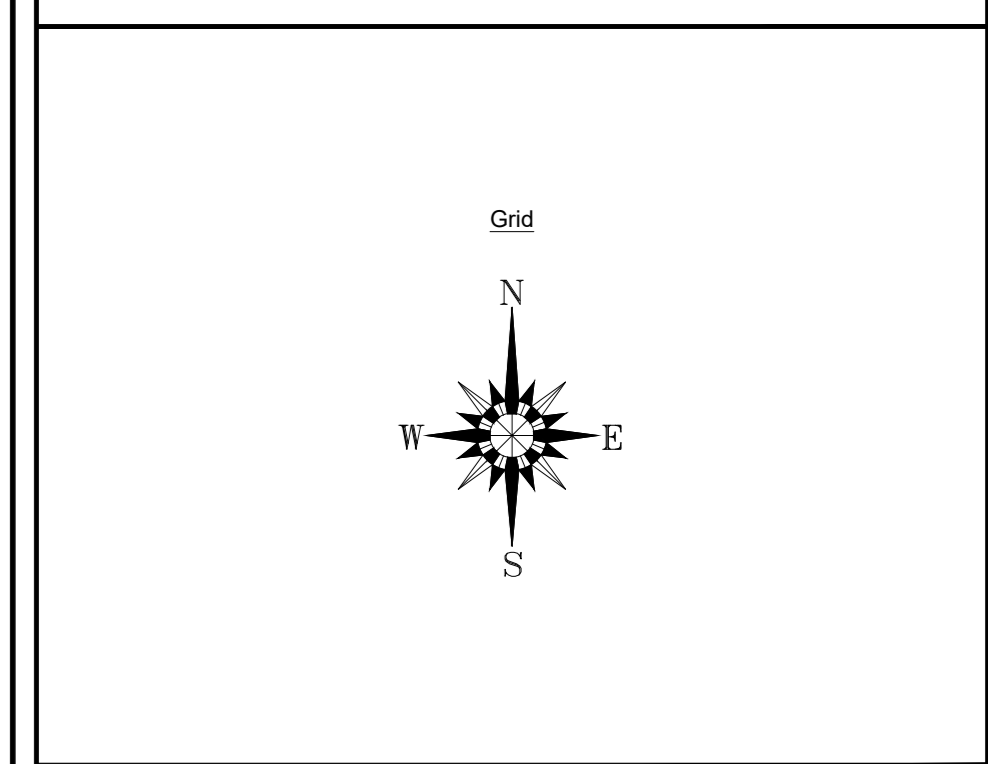
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SURVEYED	LCB	WSP
DRAWN	LCB	
CHECKED	AKM	
SCALE		1/200 (A0 Sheet)
Norman Road, Belvedere, DA17 6JY		
TOPOGRAPHICAL SURVEY		
Job No	Rev	Drawing Number
23/169	-	23/169/100-D
Date	Dec 2023	



Sheet Layout

23169-100-A	23169-100-B	23169-100-C	23169-100-D
23169-100-E	23169-100-F	23169-100-G	23169-100-H
23169-100-J	23169-100-K	23169-100-L	
	23169-100-M	23169-100-N	
	23169-100-P	23169-100-Q	
23169-100-R	23169-100-S	23169-100-T	



LEGEND

BANKING	WALL	CONTOURS
BUSHES & HEDGES	BUILDING	
TREES	OPEN SIDED BUILDING	
GATES	GLASS ROOFED	

ABBREVIATIONS (WHERE APPLICABLE)

ARCH HEAD LEVEL	ARCH	MARKER	MOR
ARCH SPRINGER HEIGHT	AH	MONITORING WELL	MW
ARCH SPRINGER LEVEL	ASL	NOTICE BOARD	NB
ARCH VALVE	AV	NAME PLATE	NP
BELLS BRACCON	BB	OVERHEAD WIRES	OW
BOLLARDS	BL	PARKING METER	PM
BRICKWORK	B	ROOF LEVEL	RL
BRITISH TELECOM BOX	BTB	ROAD SIGN	RS
BRITISH TELECOM MANHOLE	BTM	ROOFING EYE	RE
BROWWORK	BRW	ROAD SIGN	RS
BUS STOP	BS	RAIN WATER PIPE	RWP
CABLE TV	CA	RELINING WALL	RW
CABLE MARKER	CM	ROCKING WALL	RW
COVER LEVEL	CL	ROCKING EYE	RE
COLUMN	CO	ROAD SIGN	RS
CONCRETE POST	CP	ROOFING EYE	RE
EAVES LEVEL	EAV	SOIL AND VENT PIPE	SVP
ELECTRICAL COVER	EC	THRESHOLD LEVEL	TL
ELECTRICITY CONTROL BOX	ECB	TELEGRAPH POLE	TP
ELECTRICITY POLE	EP	TELEPHONE CALL BOX	TCCB
EMERALD ROAD	ER	TOP OF KERB	TK
FLOUNDER BED	FB	TUNNELL	T
FINISHED FLOOR LEVEL	FFL	TRAFFIC LIGHT	TL
FIRE HYDRANT	FH	TOP OF WALL	TW
FLOOR LEVEL	FL	UNABLE TO LIFT	UTL
FLAG STAFF	FS	UNABLE TO SURVEY	UTS
GAS PIPE	GP	VENT PIPE	VP
GAS VALVE	GV	WATER METER	WM
GATE STOP	G	WATER LEVEL	WL
GATE STOP	GS	WASH OUT	WO
INSPECTION COVER	IC	WASTE PIPE	WP
INVERT LEVEL	I	WATER TANK	WT
LAMP POST	LP	WATER VALVE	WV

REV.	NOTES	DWN	DATE

Notes:
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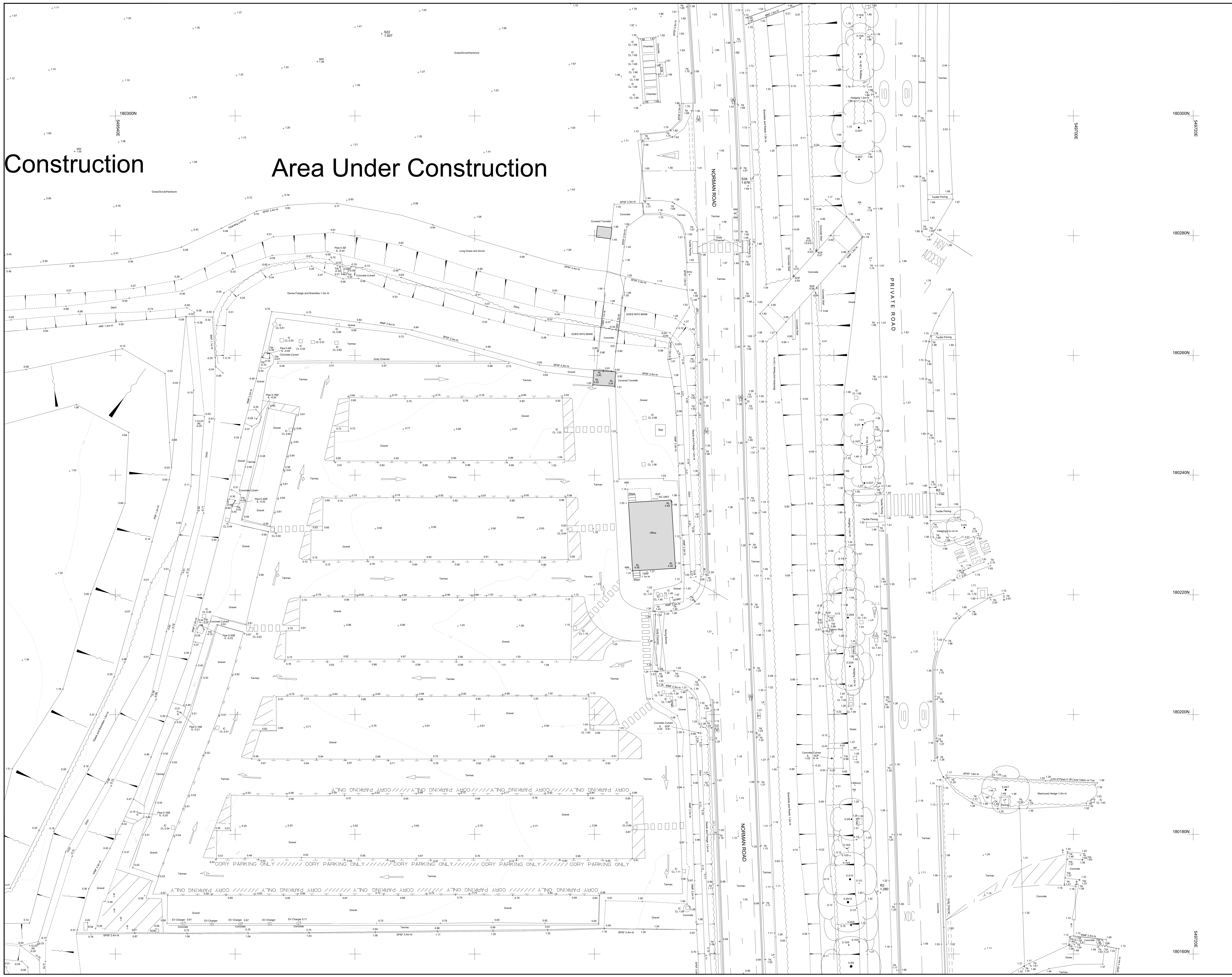
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SURVEYED	LCD	WSP
DRAWN	LCD	
CHECKED	AKM	
SCALE		1/200 (A0 Sheet)
Norman Road, Belvedere, DA17 6JY		
TOPOGRAPHICAL SURVEY		
Job No	Rev	Drawing Number
23/169	-	23/169/100-H
Date	Dec 2023	

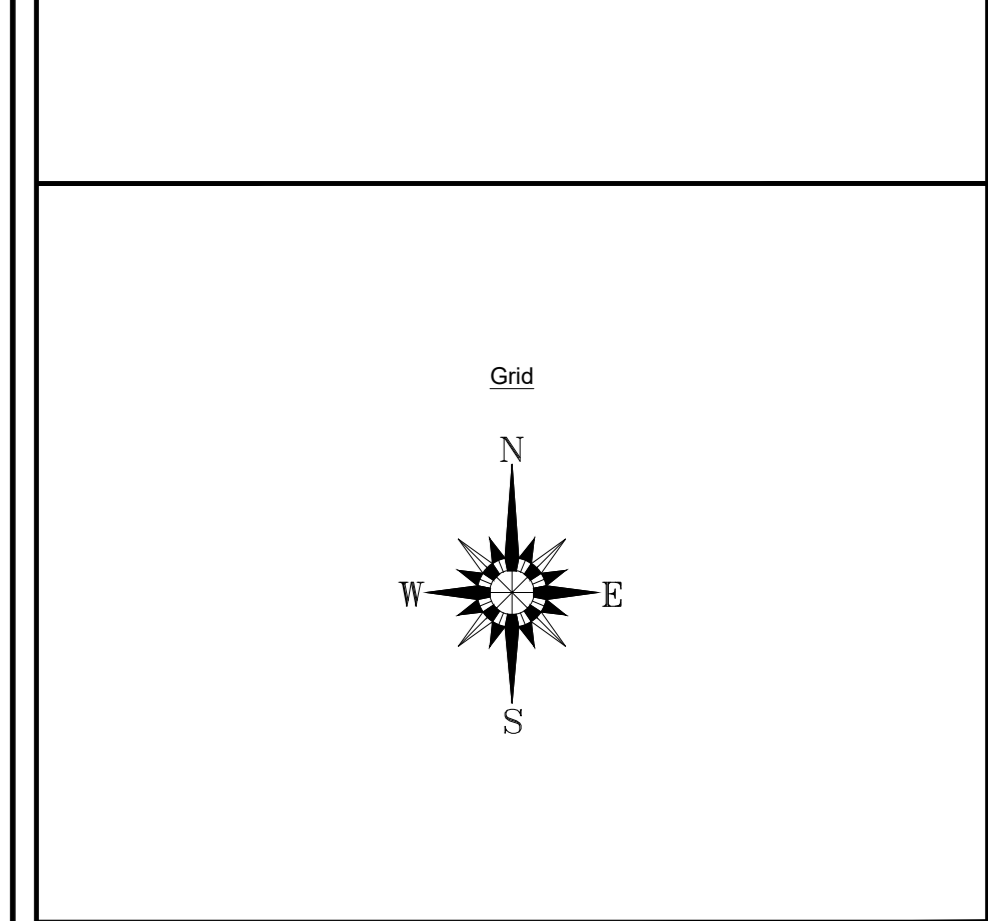
Construction

Area Under Construction



Sheet Layout

23169-100-A	23169-100-B	23169-100-C	23169-100-D
23169-100-E	23169-100-F	23169-100-G	23169-100-H
23169-100-J	23169-100-K	23169-100-L	
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23169-100-R	23169-100-S	23169-100-T	



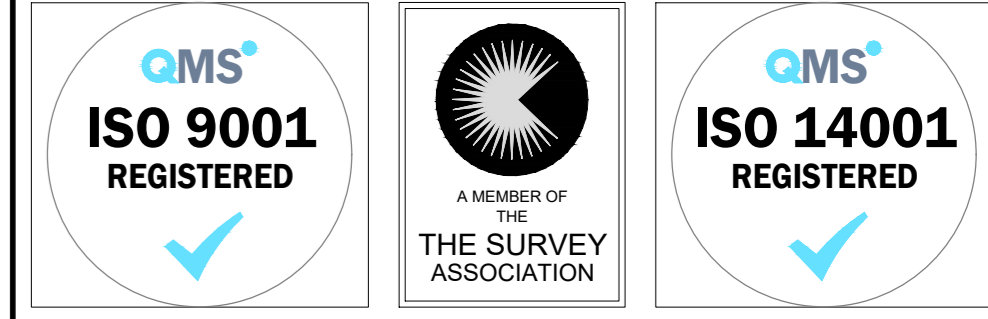
LEGEND

BANKING	WALL	CONTOURS
BUSHES & HEDGES	BUILDING	GLASS ROOFING
TREES	OPEN SIDED BUILDING	
GATES		

ABBREVIATIONS (WHERE APPLICABLE)

ARCH HEAD HEIGHT	ARCH	MARKER	MOR
ARCH SPRINGER HEIGHT	AHL	MONITORING WELL	MW
ARCH SPRINGER LEVEL	ASL	NOTICE BOARD	NB
ARCH VALVE	AV	NAME PLATE	NP
ARCH BRACE	AB	OVERHEAD WIRES	OPW
BOLLARD	BL	PARKING METER	PM
BRITISH TELECOM BOX	BTB	ROOF LEVEL	RL
BRITISH TELECOM MANHOLE	BTBM	ROAD SIGN	RS
BROWWORK	BRW	ROOFING ELEV	RE
BUS STOP	BS	RAIN WATER PIPE	RWP
CABLE TV	CTV	RISE VALVE	RV
COVER LEVEL	CL	SOFT LEVEL	SL
CABLE MARKER	CM	STRUCTURAL SLAB LEVEL	SSL
COLUMN	CP	TOP OF CURB	TOC
CONCRETE POST	CCP	TELEPHONE LEVEL	TPL
EAVES LEVEL	EAL	TELEPHONE CALL BOX	TCB
ELECTRICAL COVER	ELEC	TOP OF KERB	TK
ELECTRICITY CONTROL BOX	ECB	TURNTABLE	TT
ELECTRICITY POLE	EP	TRAFFIC LIGHT	TL
EARTH ROD	ER	TRUSS	TR
FLOOR BED	FB	TOP OF WALL	TOW
FINISHED FLOOR LEVEL	FFL	UNABLE TO SURVEY	UTS
FIRE HYDRANT	FH	WATER METER	WM
FLOOR LEVEL	FL	WATER LEVEL	WL
FLAG STAFF	FS	WASH OUT	WO
GAS PIPE	GP	WATER STOP	WS
GAS VALVE	GV	WATER TANK	WT
GULLY	G	WATER VALVE	WV
GATE STOP	GS		
INSPECTION COVER	IC		
INVERT LEVEL	L		
LAMP POST	LP		

REV.	NOTES	DWN	DATE
A			

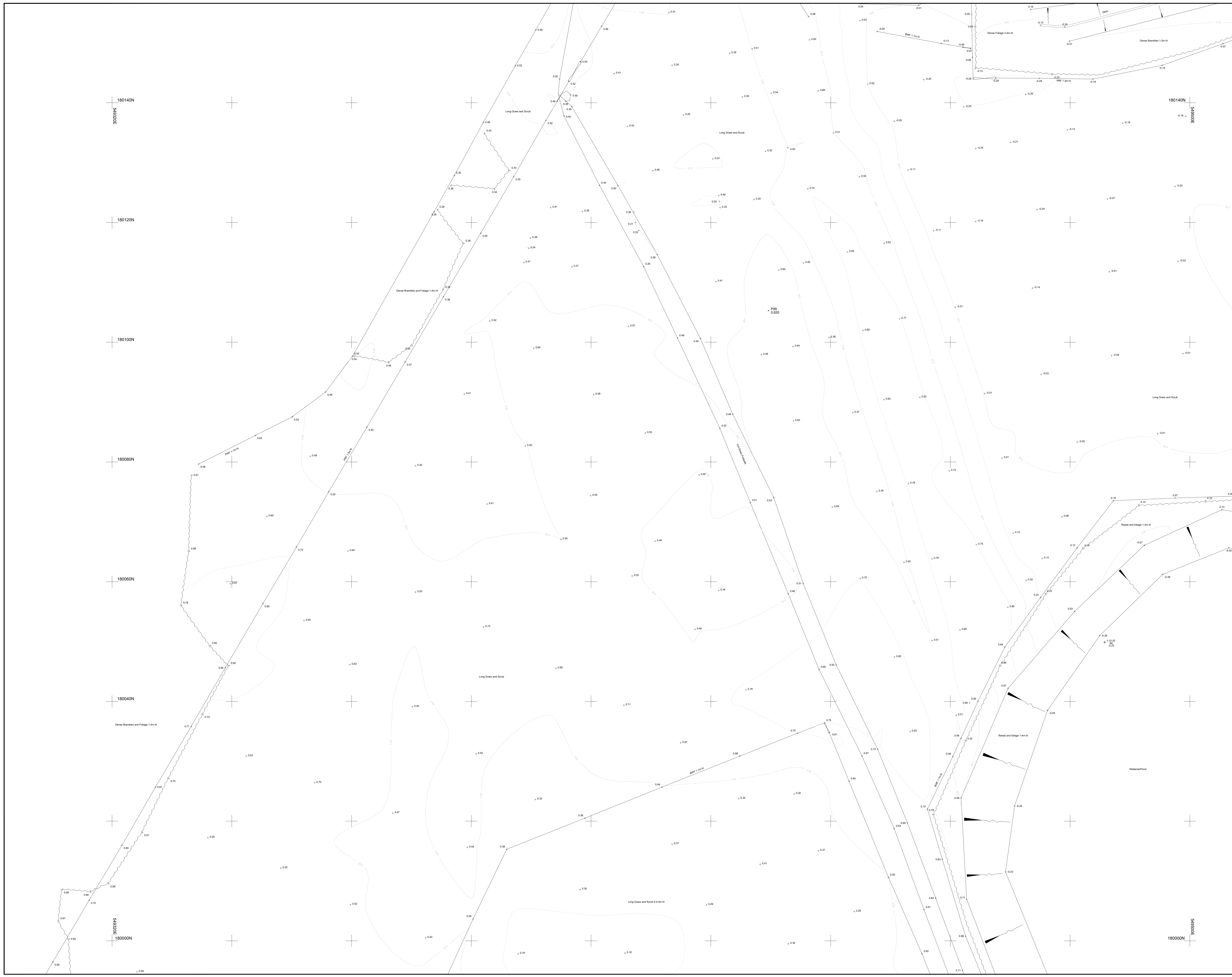


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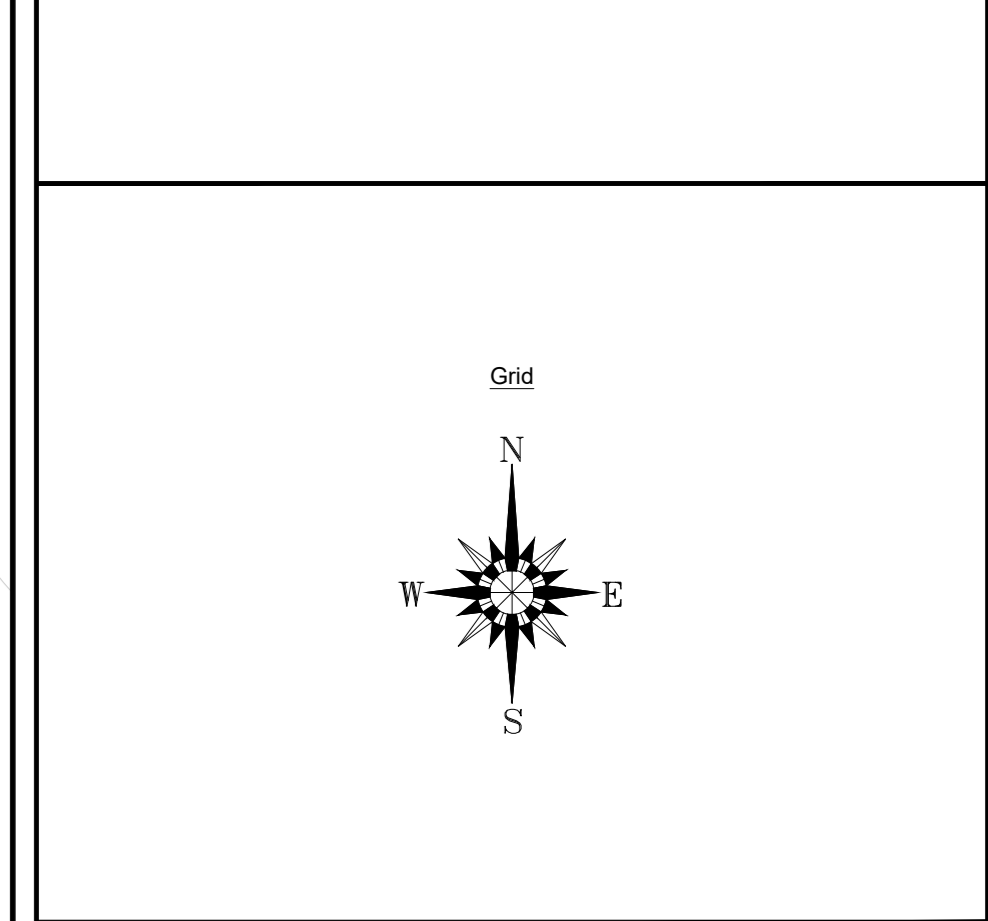
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SCALE		1/200 (A0 Sheet)
Norman Road, Belvedere, DA17 6JY		
TOPOGRAPHICAL SURVEY		
Job No	Rev	Drawing Number
23/169	-	23/169/100-N
Date	Dec 2023	



Sheet Layout

23169-100-A	23169-100-B	23169-100-C	23169-100-D
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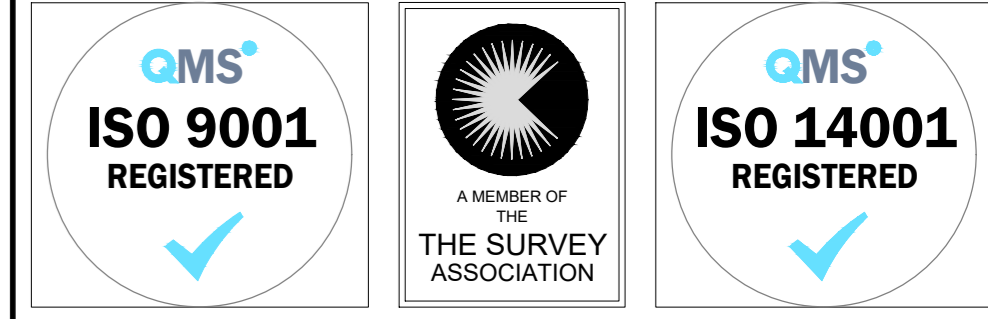
LEGEND

BANKING		WALL	
BUSHES & HEDGES		BUILDING	
TREES		OPEN BIOD BUILDING	
GATES		GLASS ROOFED	
		CONTOURS	

ABBREVIATIONS (WHERE APPLICABLE)

ARCH HEAD HEIGHT	AHH	MARKER	MOR
ARCH SPRINGER HEIGHT	AHS	MONITORING WELL	MW
ARCH SPRINGER LEVEL	ASL	NOTICE BOARD	NB
ARE VALVE	AV	NAME PLATE	NP
BELLS BRACON	BB	OVERHEAD WIRES	OW
BOLLARDS	B	PARKING METER	PM
BRITISH TELECOM BOX	BTB	ROOF LEVEL	RL
BRITISH TELECOM MANHOLE	BTM	ROOF SIGN	RS
BROWWORK	BRW	ROOFING EAVE	RE
BUS STOP	BS	ROAD SIGN	RTS
CABLE TV	CTV	RAIN WATER PIPE	RWP
COVER LEVEL	CL	RELIEF VALVE	RV
CONCRETE POST	CP	SCOFF LEVEL	SL
EAVES LEVEL	EAV	STRUCTURAL SLAB LEVEL	SSL
ELECTRICAL COVER	ELC	THRESHOLD LEVEL	TL
ELECTRICITY POLE	EP	TELEPHONE CALL BOX	TCB
EARTH ROD	ER	TOP OF KEYS	TK
FLOWER BED	FB	TUNNEL	TS
FINISHED FLOOR LEVEL	FFL	TRAFFIC LIGHT	TL
FIRE HYDRANT	FH	TOP OF WALL	TW
FLOOR LEVEL	FL	UNABLE TO CLIMB	UTC
FLAG STAFF	FS	UNABLE TO SURVEY	UTS
GAS PIPE	GP	VENT PIPE	VP
GATE VALVE	GV	WATER METER	WM
GATE STOP	G	WATER LEVEL	WL
INSPECTION COVER	IC	WASTE PIPE	WP
INVERT LEVEL	L	WATER TANK	WT
LAMP POST	LP	WATER VALVE	WV

REV.	NOTES	DWN	DATE
A			

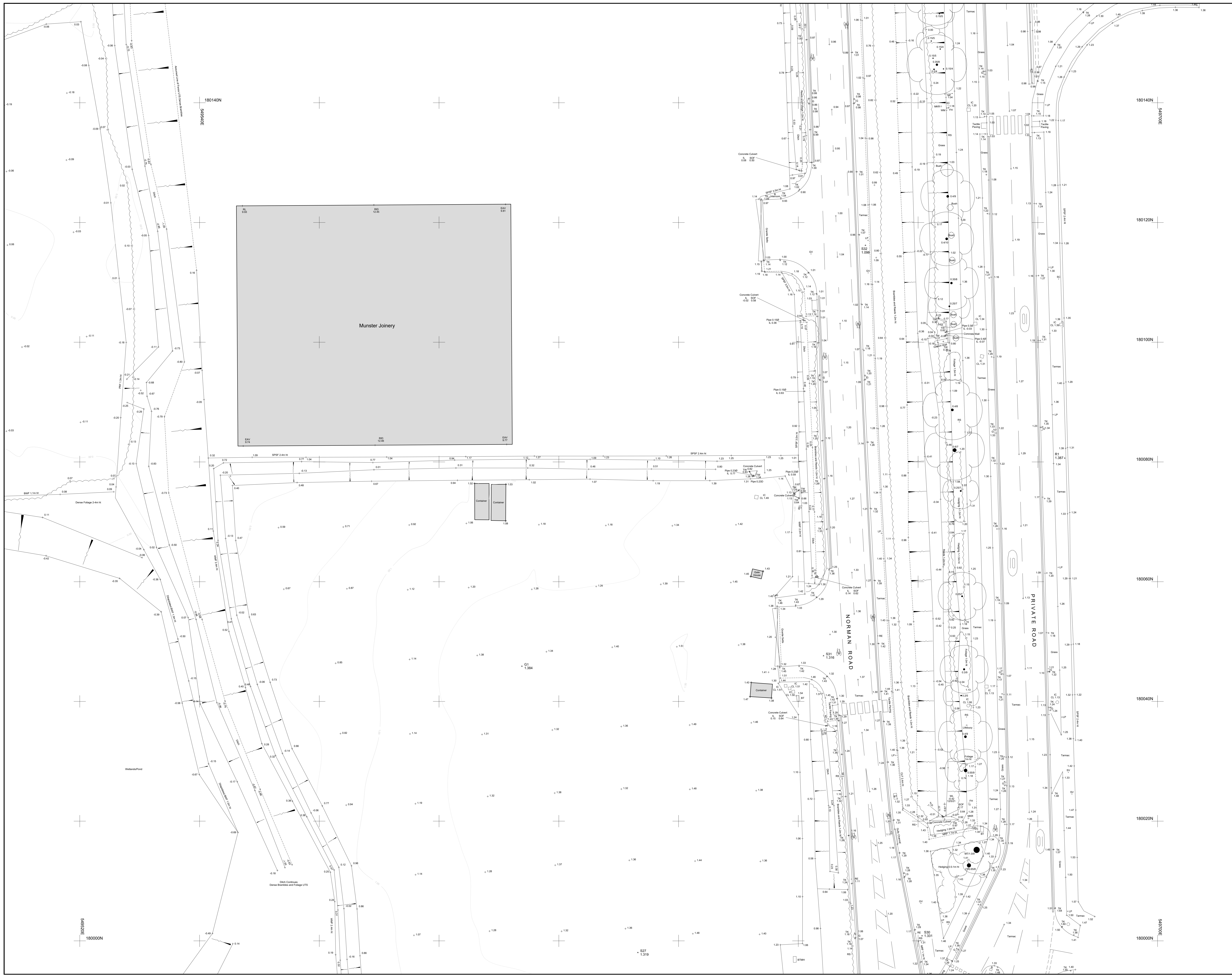


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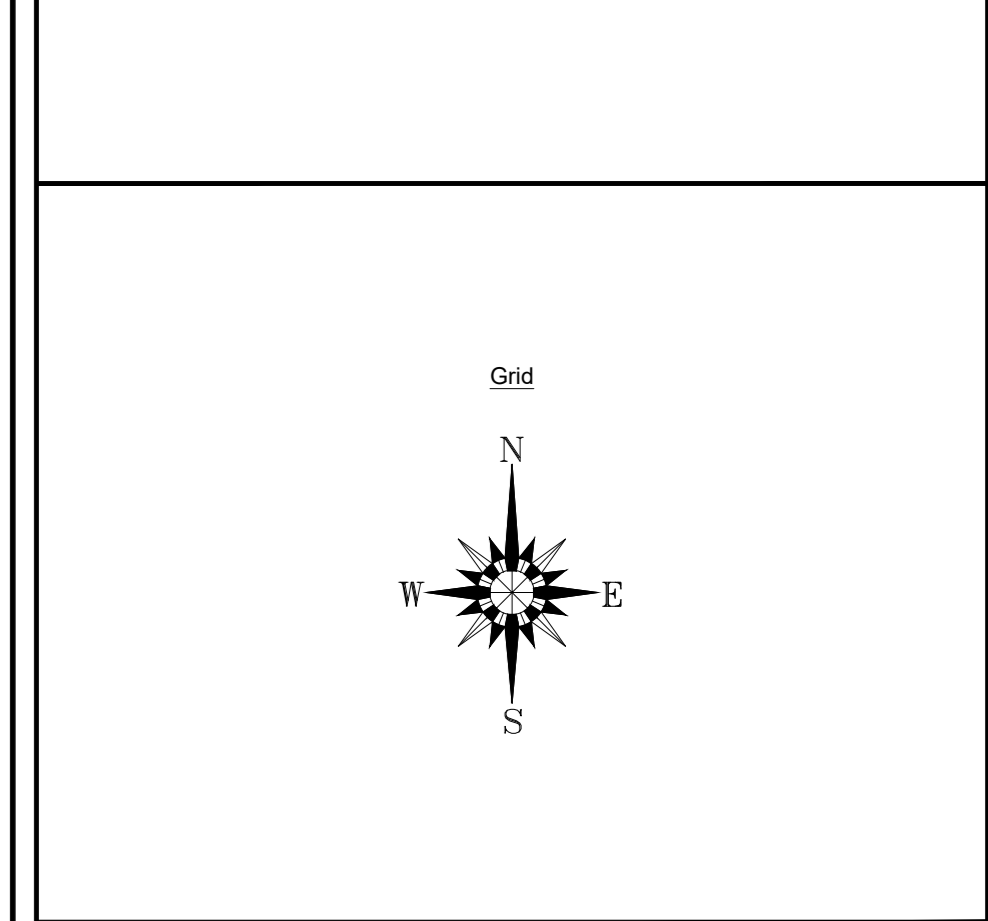
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SURVEYED	LCD	WSP
DRAWN	LCD	
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SCALE		1/200 (A0 Sheet)
Norman Road, Belvedere, DA17 6JY		
TOPOGRAPHICAL SURVEY		
Job No	Rev	Drawing Number
23/169	-	23/169/100-P
Date	Dec 2023	



Sheet Layout

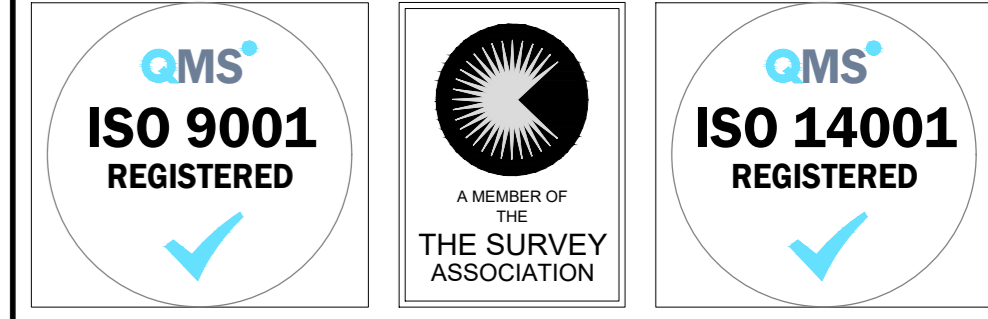
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	23169-100-M	23169-100-N	
	23169-100-P	23169-100-Q	
23169-100-R	23169-100-S	23169-100-T	



LEGEND

BANKING	WALL	CONTOURS
BUSHES & HEDGES	BUILDING	OPEN BIOD BUILDING
TREES	GLASS ROOFED	
GATES		
ABBREVIATIONS (WHERE APPLICABLE)		
ARCH HEAD LEVEL	ARCH SPRINGER HEIGHT	ARCH SPRINGER LEVEL
ARCH VALVE	BRICK REACTION	BOLLARDS
BRICKWORK	BRITISH TELECOM MANHOLE	BUS STOP
CABLE TV	CABLE MARKER	CONCRETE LEVEL
COLUMN	CONCRETE POST	EAVERS LEVEL
ELECTRICAL COVER	ELECTRICAL CONTROL BOX	ELECTRICITY POLE
EARTH ROD	FLOWER BED	FINISHED FLOOR LEVEL
FIRE HYDRANT	FLOOR LEVEL	FLAG STAFF
GAS PIPE	GAS VALVE	GATE STOP
GATE STOP	INSPECTION COVER	INVERT LEVEL
LAMP POST		
FENCES	BARBED WIRE FENCE	COMBINGED IRON FENCE
CHAIN LINK FENCE	CHESTNUT PALING FENCE	FENCE POST
INTERWOVEN FENCE	IRON RAILING FENCE	
MARKER	MONITORING WELL	NOTICE BOARD
NAME PLATE	CRIBHEAD WIRES	PARKING METER
ROAD SIGN	ROOF LEVEL	ROAD SIGN
ROOFING EAVE	RETAINING WALL	SCAFFOLD
RAIN WATER PIPE	SOFT LEVEL	STOP COOK
REPAIRING WALL	STRUCTURAL SLAB LEVEL	THRESHOLD LEVEL
SOIL AND VENT PIPE	TELEGRAPH POLE	TELEPHONE CALL BOX
TRIP	TOP OF KERB	TOP OF WALL
TRAFFIC LIGHT	UNABLE TO SURVEY	UNABLE TO SURVEY
WATER METER	WATER LEVEL	WATER TANK
WATER VALVE	WATER TANK	WATER VALVE
WATER VALVE		

REV.	NOTES	DWN	DATE
A			

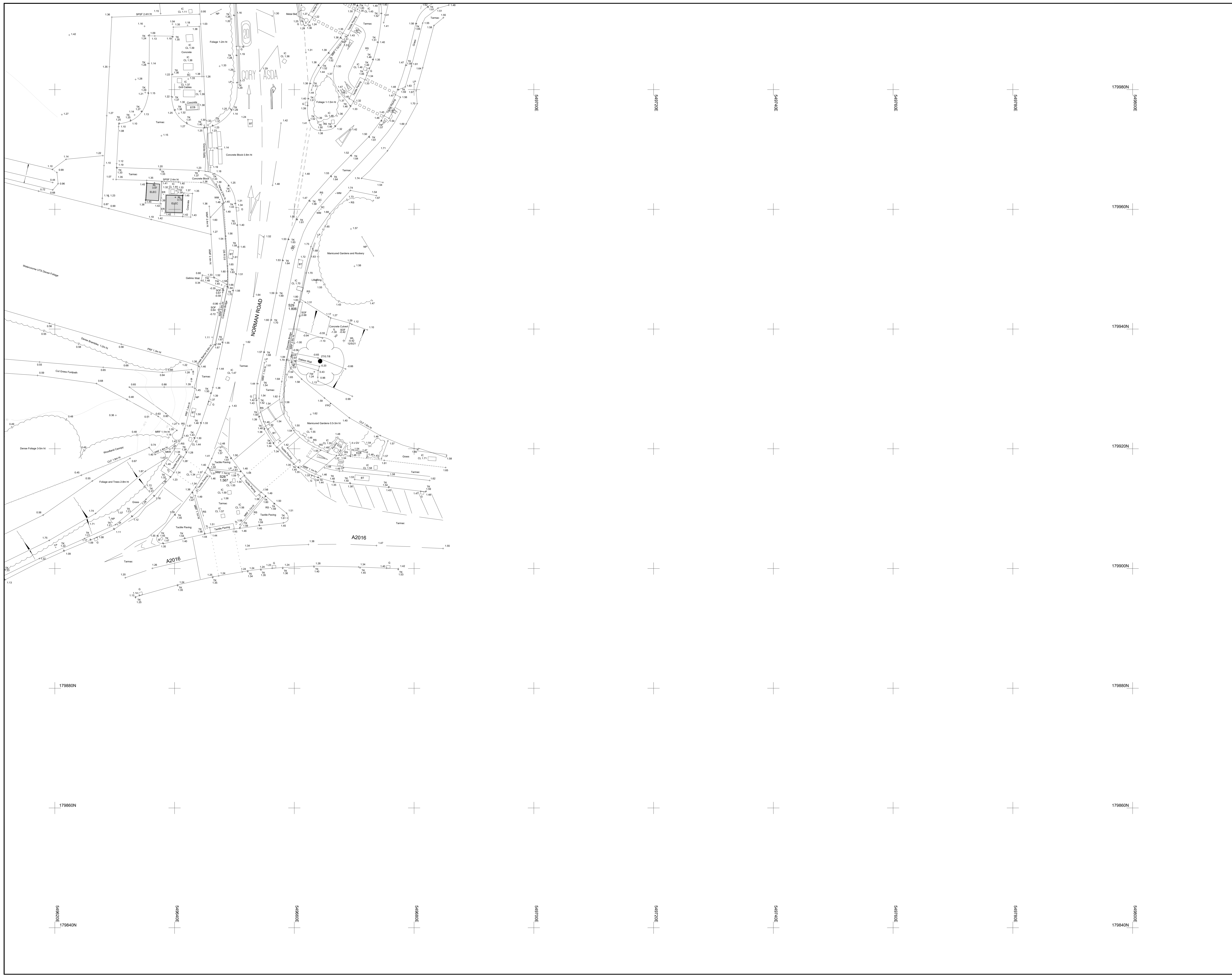


Notes:
 Grid and levels relate to OS GPS Active Network.
 Sheet is North orientated unless stated.
 Additional Areas Added to Original Surveys 18/010 and 21/110.
 Many Ditch/Watercourse Areas Extremely Overgrown
 Levels Taken Where Possible.

Maltby Surveys Ltd

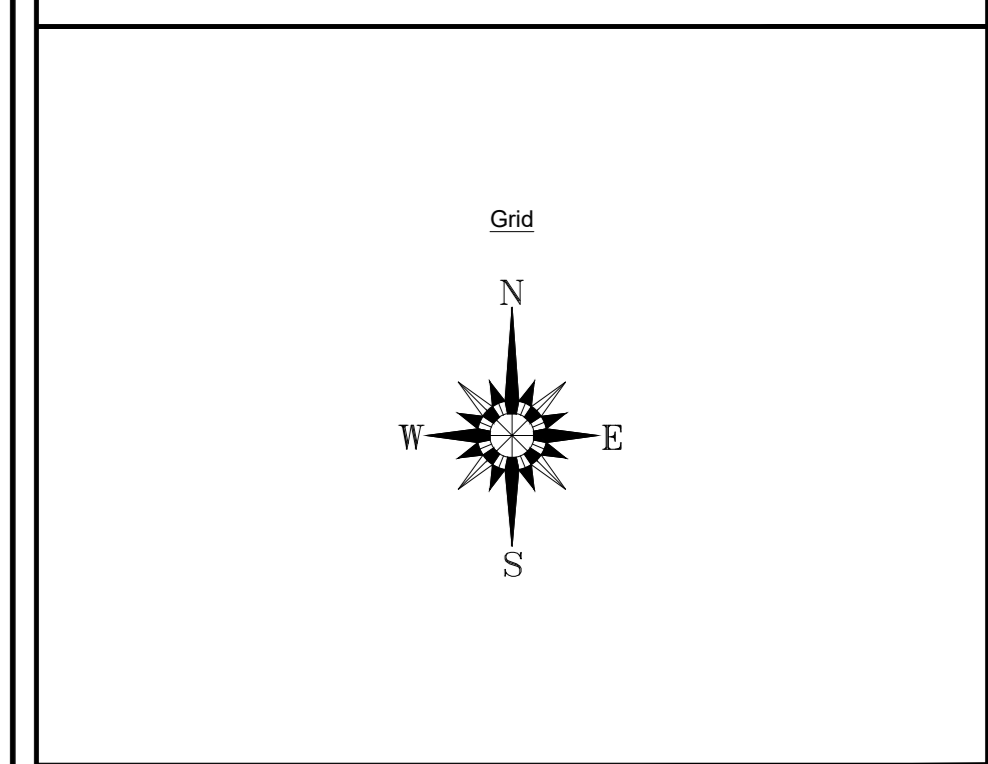
2 QUEENS ROAD
 HAYWARDS HEATH
 WEST SUSSEX
 RH16 5ES
 Tel: 01444 416246
 E-Mail: info@maltbysurveys.com
 WebSite: www.maltbysurveys.com

SURVEYED	LCD	WSP
DRAWN	LCD	
CHECKED	AKM	
SCALE		1/200 (A0 Sheet)
Norman Road, Belvedere, DA17 6JY		
TOPOGRAPHICAL SURVEY		
Job No	Rev	Drawing Number
23/169	-	23/169/100-Q
Date	Dec 2023	



Sheet Layout

23169-100-A	23169-100-B	23169-100-C	23169-100-D
23169-100-E	23169-100-F	23169-100-G	23169-100-H
23169-100-J	23169-100-K	23169-100-L	
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23169-100-R	23169-100-S	23169-100-T	

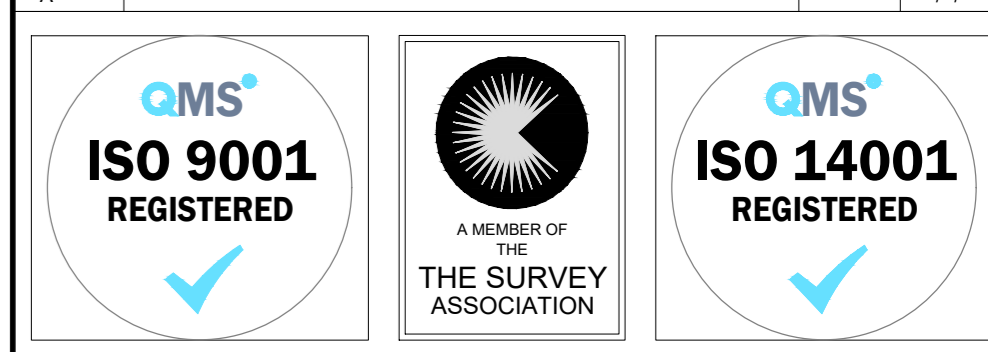


LEGEND

ABBREVIATIONS (WHERE APPLICABLE)

ARCH HEAD LEVEL	ARM	MARKER	MOR
ARCH SPRINGER HEIGHT	ASH	MONITORING WELL	MAW
ARCH SPRINGER LEVEL	ASL	NOTICE BOARD	NB
ARCH VALVE	AV	OVERHEAD WIRES	OP
BELGRAVEACON	BL	PARKING METER	PM
BOLLARDS	B	ROOF LEVEL	RL
BRITISH TELECOM BOX	BTB	ROOF LEVEL	RL
BRITISH TELECOM MANHOLE	BTMH	ROOFING EDGE	RE
BROWWORK	BRW	ROAD SIGN	RS
BUS STOP	BS	RAIN WATER PIPE	RWP
CABLE T/Y	CT	SLICE VALVE	SV
COVER LEVEL	CL	STOP COOK	SC
CABLE MARKER	CM	SOFT LEVEL	SOF
COLUMN	COL	STRUCTURAL SLAB LEVEL	SSL
CONCRETE POST	CP	TREE STUMP	ST
EAVES LEVEL	EAV	SOIL AND VENT PIPE	DVP
ELECTRICAL COVER	ELEC	THRESHOLD LEVEL	TL
ELECTRICITY POLE	EP	TELEGRAPH POLE	TP
ELECTRICITY CONTROL BOX	EP	TELEPHONE CALL BOX	TCB
EARTH ROD	ER	TOP OF KERB	TK
FLOUNDER BED	FB	TUNNEL	TR
FINISHED FLOOR LEVEL	FFL	TRAFFIC LIGHT	TL
FIRE WYREANT	FW	TOP OF WALL	TW
FLOOR LEVEL	FL	UNABLE TO LIFT	UTL
FLAG STAFF	FS	UNABLE TO SURVEY	UTS
GAS PIPE	GP	VENT PIPE	VP
GATE VALVE	GV	WATER METER	WM
GALLY	G	WATER LEVEL	WL
GATE STOP	GS	WASH OUT	WO
INSPECTION COVER	IC	WASTE PIPE	WP
INVERT LEVEL	L	WATER TANK	WT
LAMP POST	LP	WATER VALVE	WV

REV.	NOTES	DWN	DATE
A			

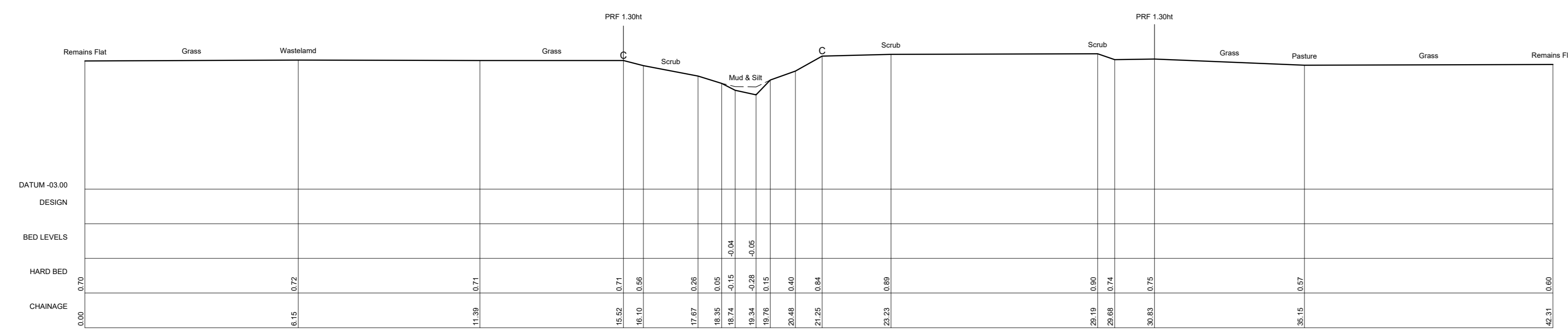


Notes:
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 Additional Areas Added to Original Surveys 18/010 and 21/110.
 Many Ditch/Watercourse Areas Extremely Overgrown
 Levels Taken Where Possible.

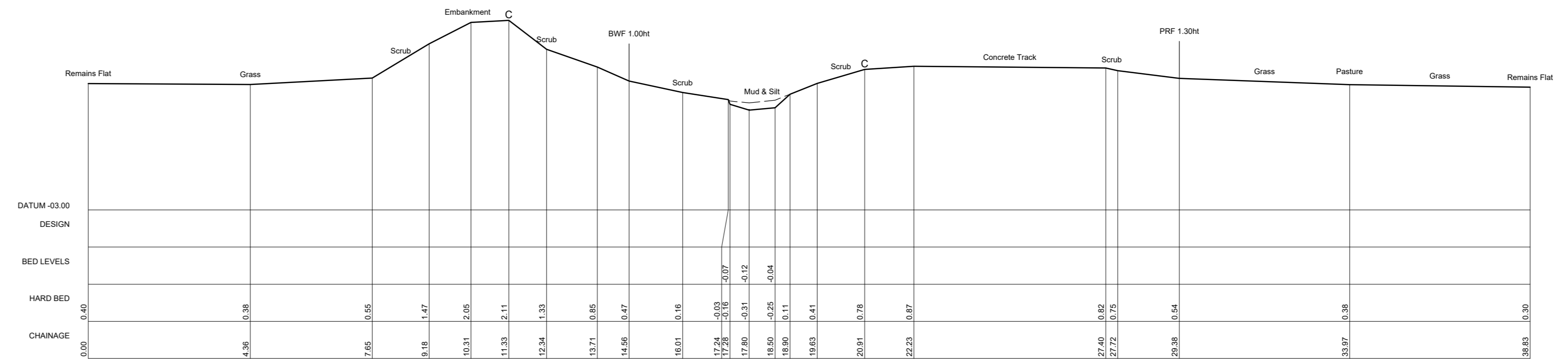
Maltby Surveys Ltd

2 QUEENS ROAD
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 WEST SUSSEX
 RH16 5ES
 Tel: 01444 416246
 E-Mail: info@maltbysurveys.com
 Web-Site: www.maltbysurveys.com

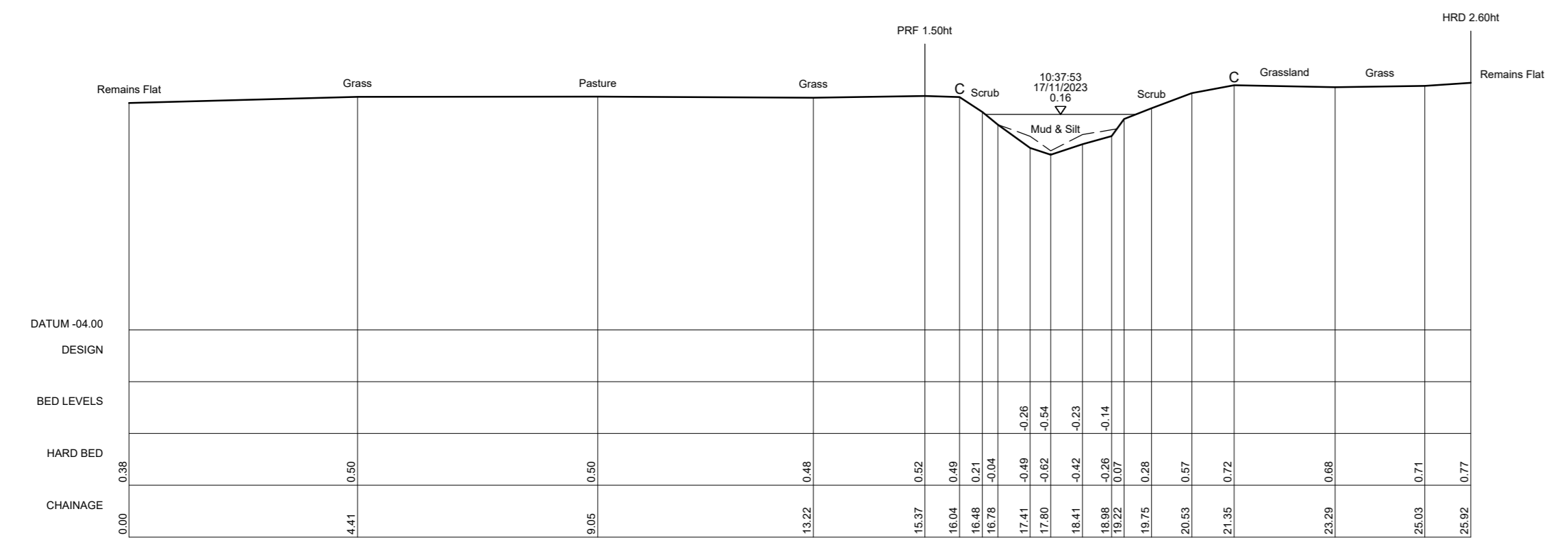
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CHECKED	AKM	
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Norman Road, Belvedere, DA17 6JY		
TOPOGRAPHICAL SURVEY		
Job No	Rev	Drawing Number
23/169	-	23/169/100-T
Date	Dec 2023	



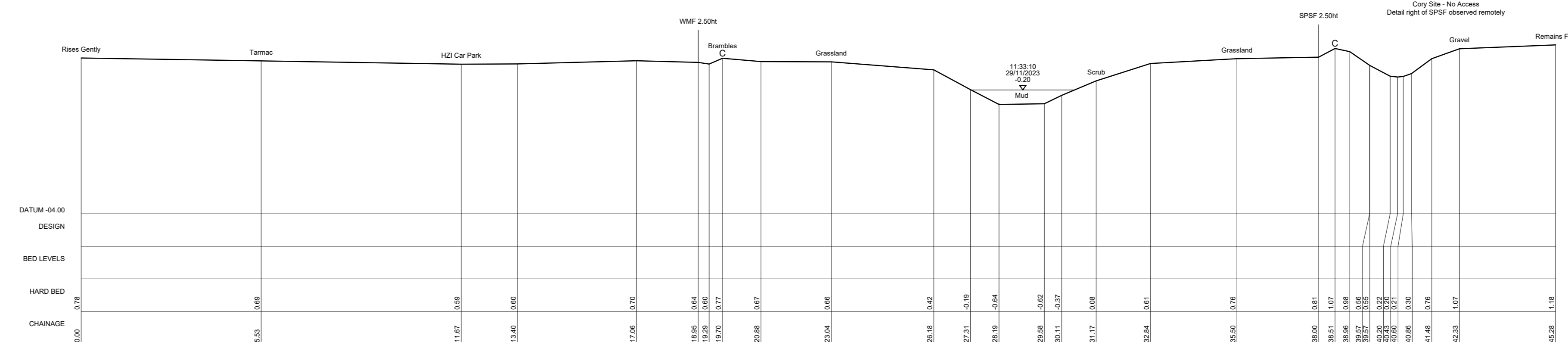
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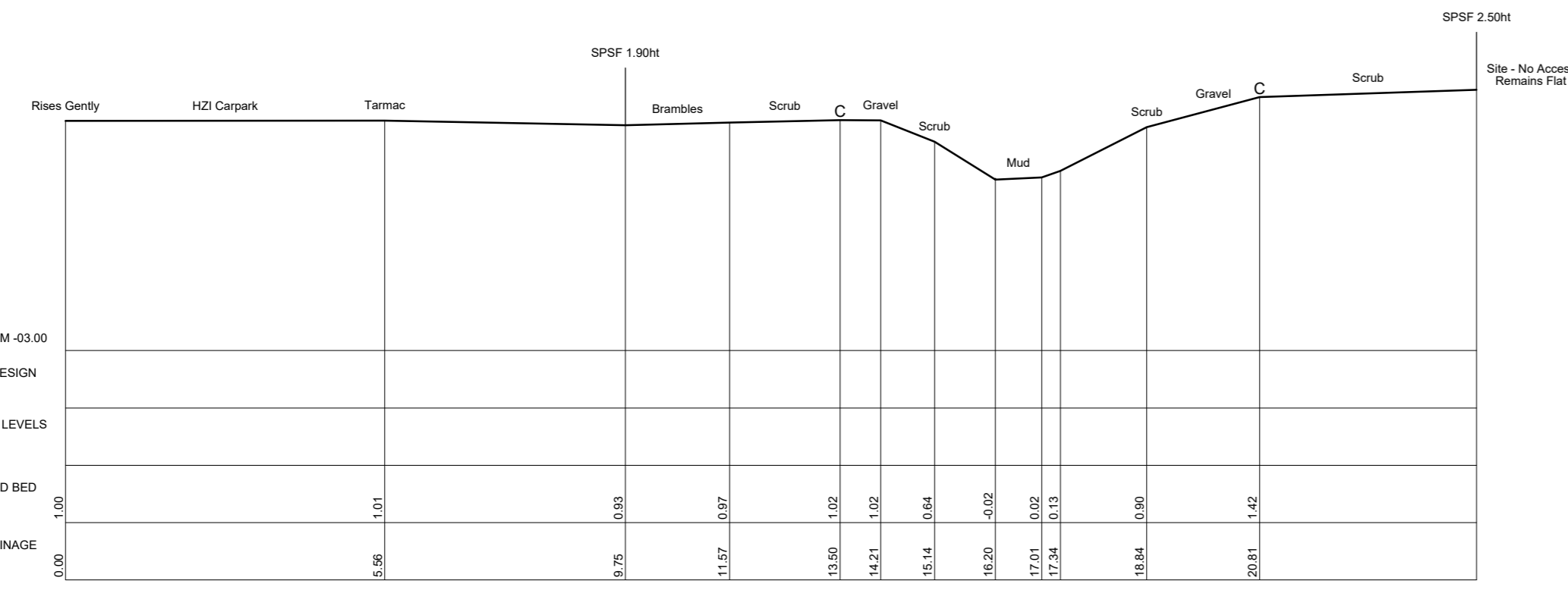
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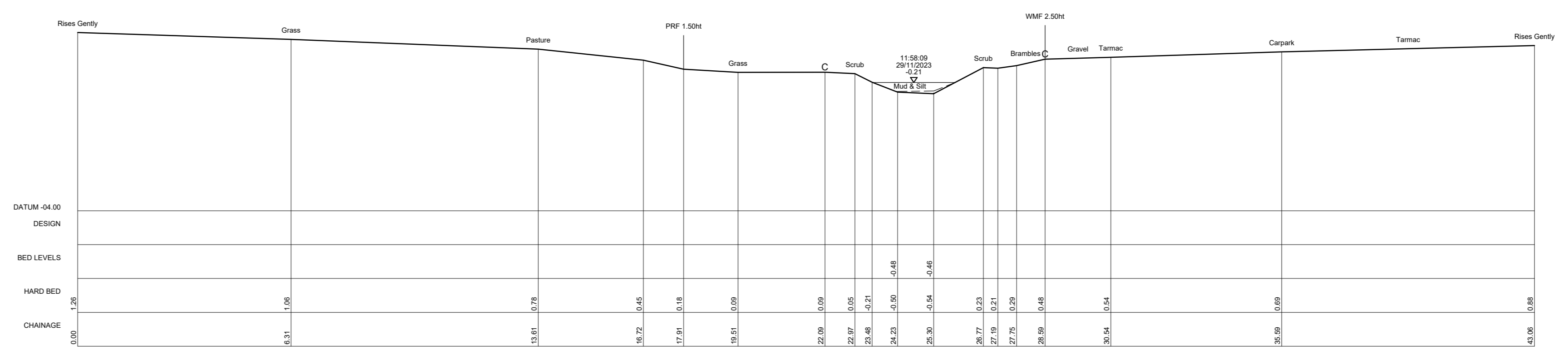
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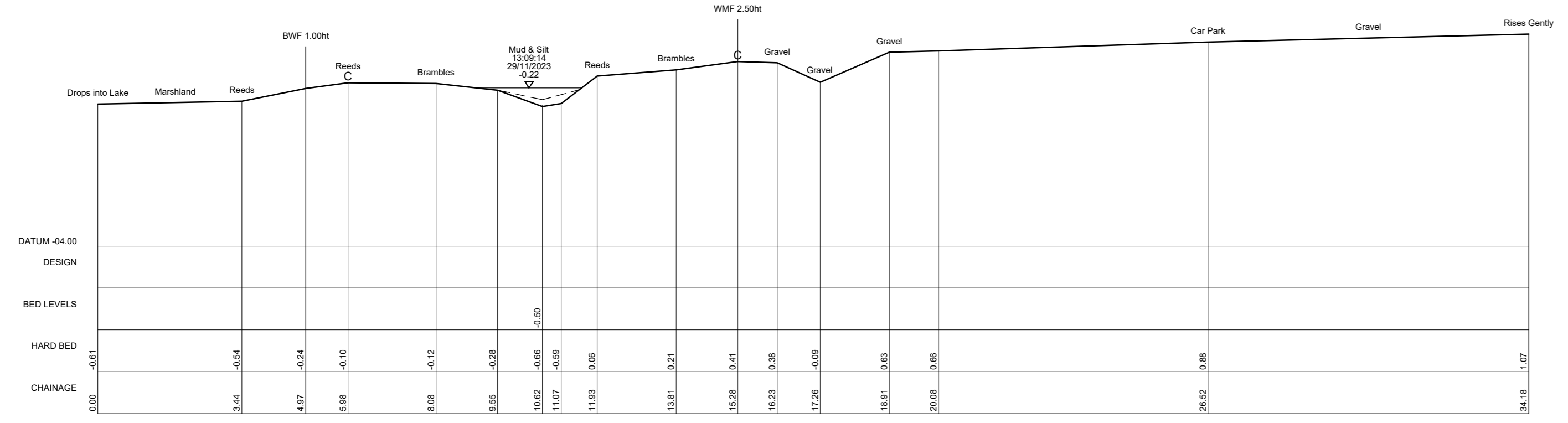
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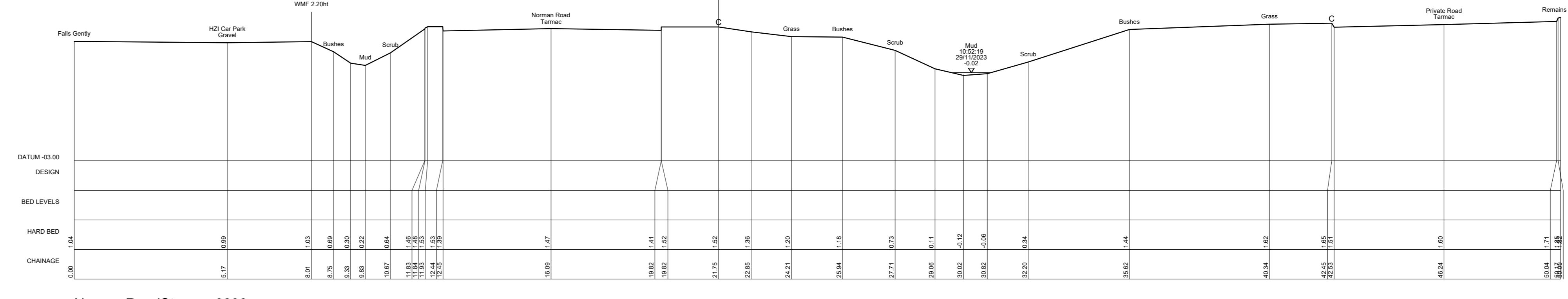
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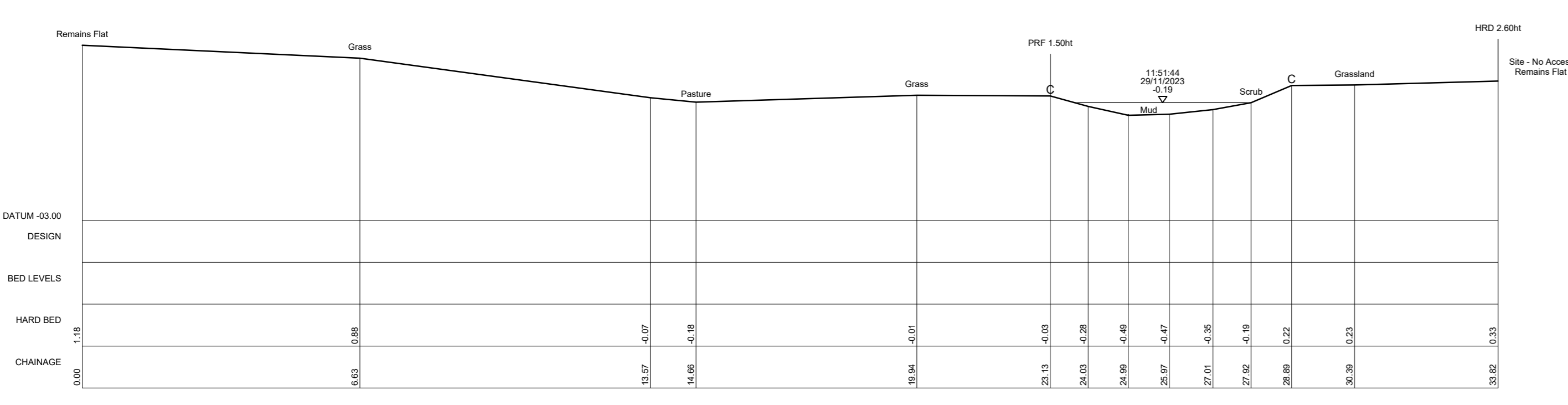
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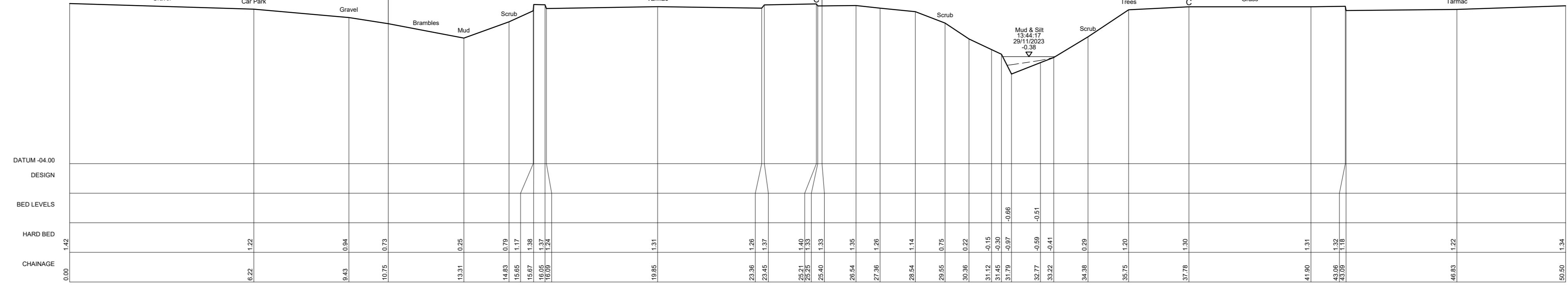
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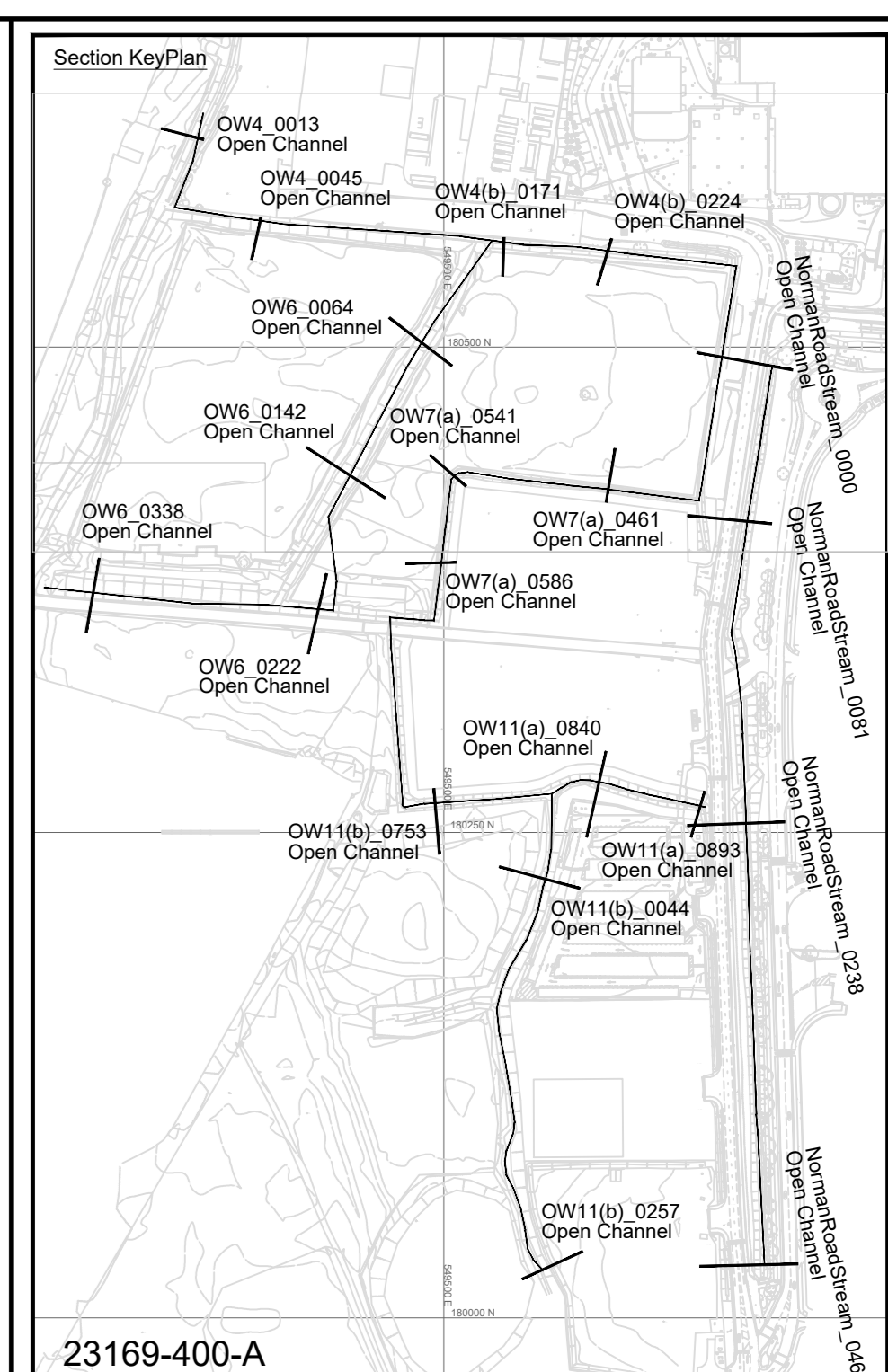
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23169-400-A

LEGEND

BANKING	WALL	ROAD MARKING
BUSHES & HEDGES	BUILDING	OPEN SIDED BUILDING
TREES	GLASS ROOFED	CONTOURS
GATES		

ABBREVIATIONS (WHERE APPLICABLE)

ARCH HEAD HEIGHT	AHH	MARKER	MOR
ARCH SPRINGER HEIGHT	AHS	MONITORING WELL	MW
ARCH SPRINGER LEVEL	ASL	NOTICE BOARD	NB
AIR VALVE	AV	NAME PLATE	NP
BELLSPEACON	BS	OVERHEAD WIRES	OP
BOLLARD	BL	PARKING METER	PM
BRICKWORK	BR	ROOF LEVEL	RL
BRITISH TELECOM BOX	BTB	ROAD SIGN	RS
BRITISH TELECOM MANHOLE	BTM	ROOF LEVEL	RE
BROW	BRW	ROAD SIGN	RS
BUS STOP	BS	RAIN WATER PIPE	RWP
CABLE TV	CTV	SLICE VALVE	SV
COVER LEVEL	CL	STOP COCK	SC
CABLE MARKER	CM	TREE STUMP	ST
COLUMN	CO	STRUCTURAL SLAB LEVEL	SSL
CONCRETE POST	CCP	TRIP	TR
EAWS LEVEL	EAL	SOIL AND WENT PIPE	SWP
ELECTRICAL COVER	ELC	THRESHOLD LEVEL	TL
ELECTRICITY CONTROL BOX	ECB	TELEGRAPH POLE	TP
ELECTRICITY POLE	EP	TELEPHONE CALL BOX	TCB
EARTH ROD	ER	TOP OF KERB	TK
FLOWER BED	FB	TUNNEL	TN
FINISHED FLOOR LEVEL	FFL	TRAFFIC LIGHT	TL
FIRE HYDRANT	FH	TOP OF WALL	TOW
FLOOR LEVEL	FL	UNABLE TO SURVEY	UTS
FLAG STAFF	FS	VENT PIPE	VP
GAS PIPE	GP	WATER METER	WM
GATE VALVE	GV	WATER LEVEL	WL
GATE STOP	GS	WASH OUT	WO
INSPECTOR COVER	IC	WASTE PIPE	WP
INVERT LEVEL	IL	WATER TANK	WT
LAMP POST	LP	WATER VALVE	WV

FENCES

BARBED WIRE FENCE	BWF	LANCH LAP FENCE	LLF
CONCRETE PIER FENCE	CPF	METAL RAILING FENCE	MRF
CLOSE BOARD FENCE	CBF	POST AND CHAIN FENCE	PCF
CHAIN LINK FENCE	CLF	SCOTCH FENCE	SCF
CHESTNUT PALING FENCE	CPF	POST AND RAIL FENCE	PRF
FENCE POST	FP	POST AND WIRE FENCE	PWF
HORSING	HRD	STEEL PALISADE SECURITY FENCE	SPF
INTERLOCKING FENCE	IF	TUBULAR RAIL FENCE	TRF
IRON RAILING FENCE	IRF		

REV. NOTES

1			
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Notes:
Section plan scale - 1/3500
Section plan is north orientated

Maltby Surveys Ltd
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SURVEYED	NVD	WSP
DRAWN	NVD	
CHECKED	AKM	
SCALE		1/100 (A0 Sheet)
Norman Road, Belvedere, DA17 6JY		
CHANNEL SECTIONS		
Job No	Rev	Drawing Number
23/169	-	23/169/400/B
Date	NOV 2023	

Annex B

LIMITATIONS

REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

GENERAL

1. WSP UK Limited has prepared this report solely for the use of the Client and those parties with whom a warranty agreement has been executed, or with whom an assignment has been agreed and outlined in the body of the report.
2. Unless explicitly agreed otherwise, in writing, this report has been prepared under WSP UK Limited standard Terms and Conditions as included within our proposal to the Client.
3. Project specific appointment documents may be agreed at our discretion and a charge may be levied for both the time to review and finalise appointments documents and also for associated changes to the appointment terms. WSP UK Limited reserves the right to amend the fee should any changes to the appointment terms create an increase risk to WSP UK Limited.
4. The report needs to be considered in the light of the WSP UK Limited proposal and associated limitations of scope. The report needs to be read in full and isolated sections cannot be used without full reference to other elements of the report and any previous works referenced within the report.

PHASE 1 GEO ENVIRONMENTAL AND PRELIMINARY RISK ASSESSMENTS

Coverage: *This section covers reports with the following titles or combination of titles: phase 1; desk top study; geo environmental assessment; development appraisal; preliminary environmental risk assessment; constraints report; due diligence report; geotechnical development review; environmental statement; environmental chapter; project scope summary report (PSSR), program environmental impact report (PEIR), geotechnical development risk register; and, baseline environmental assessment.*

5. The works undertaken to prepare this report comprised a study of available and easily documented information from a variety of sources (including the Client), together with (where appropriate) a brief walk over inspection of the Site and correspondence with relevant authorities and other interested parties. Due to the short timescales associated with these projects responses may not have been received from all parties. WSP UK Limited cannot be held responsible for any disclosures that are provided post production of our report and will not automatically update our report.
6. The opinions given in this report have been dictated by the finite data on which they are based and are relevant only for the purpose for which the report was commissioned. The information reviewed should not be considered exhaustive and has been accepted in good faith as providing true and representative data pertaining to site conditions. Should additional information become available which may affect the opinions expressed in this report, WSP UK Limited reserves the right to review such information and, if warranted, to modify the opinions accordingly.
7. It should be noted that any risks identified in this report are perceived risks based on the information reviewed. Actual risks can only be assessed following intrusive investigations of the site.
8. WSP UK Limited does not warrant work / data undertaken / provided by others.



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

INTRUSIVE INVESTIGATION REPORTS

Coverage: *The following report titles (or combination) may cover this category of work: geo environmental site investigation; geotechnical assessment; GIR (Ground Investigation reports); preliminary environmental and geotechnical risk assessment; and, geotechnical risk register.*

9. The investigation has been undertaken to provide information concerning either:
 - i. The type and degree of contamination present at the site in order to allow a generic quantitative risk assessment to be undertaken; or
 - ii. Information on the soil properties present at the site to allow for geotechnical development constraints to be considered.
10. The scope of the investigation was selected on the basis of the specific development and land use scenario proposed by the Client and may be inappropriate to another form of development or scheme. If the development layout was not known at the time of the investigation the report findings may need revisiting once the development layout is confirmed.
11. For contamination purposes, the objectives of the investigation are limited to establishing the risks associated with potential contamination sources with the potential to cause harm to human health, building materials, the environment (including adjacent land), or controlled waters.
12. For geotechnical investigations the purpose is to broadly consider potential development constraints associated with the physical property of the soils underlying the site within the context of the proposed future or continued use of the site, as stated within the report.
13. The amount of exploratory work, soil property testing and chemical testing undertaken has necessarily been restricted by various factors which may include accessibility, the presence of services; existing buildings; current site usage or short timescales. The exploratory holes completed assess only a small percentage of the area in relation to the overall size of the Site, and as such can only provide a general indication of conditions.
14. The number of sampling points and the methods of sampling and testing do not preclude the possible existence of contamination where concentrations may be significantly higher than those actually encountered or ground conditions that vary from those identified. In addition, there may be exceptional ground conditions elsewhere on the site which have not been disclosed by this investigation and which have therefore not been taken into account in this report.
15. The inspection, testing and monitoring records relate specifically to the investigation points and the timeframe that the works were undertaken. They will also be limited by the techniques employed. As part of this assessment, WSP UK Limited has used reasonable skill and care to extrapolate conditions between these points based upon assumptions to develop our interpretation and conclusions. The assumption made in forming our conclusions is that the ground and groundwater conditions (both chemically and physically) are the same as have been encountered during the works undertaken at the specific points of investigation. Conditions can change between investigation points and these interpretations should be considered indicative.
16. The risk assessment and opinions provided are based on currently available guidance relating to acceptable contamination concentrations; no liability can be accepted for the retrospective effects of any future changes or amendments to these values. Specific assumptions associated



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

with the WSP UK Limited risk assessment process have been outlined within the body or associated appendix of the report.

17. Additional investigations may be required in order to satisfy relevant planning conditions or to resolve any engineering and environmental issues.
18. Where soil contamination concentrations recorded as part of this investigation are used for commentary on potential waste classification of soils for disposal purposes, these should be classed as indicative only. Due consideration should be given to the variability of contaminant concentrations taken from targeted samples versus bulk excavated soils and the potential variability of contaminant concentrations between sampling locations. Where major waste disposal operations are considered, targeted waste classification investigations should be designed.
19. The results of the asbestos testing are factually reported and interpretation given as to how this relates to the previous use of the site, the types of ground encountered and site conceptualisation. This does not however constitute a formal asbestos assessment. These results should be treated cautiously and should not be relied upon to provide detailed and representative information on the delineation, type and extent of bulk ACMs and / or trace loose asbestos fibres within the soil matrix at the site.
20. If costs have been included in relation to additional site works, and / or site remediation works these must be considered as indicative only and must be confirmed by a qualified quantity surveyor.

EUROCODE 7: GEOTECHNICAL DESIGN

21. On 1st April 2010, BS EN 1997-1:2004 (Eurocode 7: Geotechnical Design – Part 1) became the mandatory baseline standard for geotechnical ground investigations.
22. In terms of geotechnical design for foundations, slopes, retaining walls and earthworks, EC7 sets guidance on design procedures including specific guidance on the numbers and spacings of boreholes for geotechnical design, there are limits to methods of ground investigation and the quality of data obtained and there are also prescriptive methods of assessing soil strengths and methods of design. Unless otherwise explicitly stated, the work has not been undertaken in accordance with EC7. A standard geotechnical interpretative report will not meet the requirements of the Geotechnical Design Report (GDR) under Eurocode 7. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. The report is likely to represent a Ground Investigation Report (GIR) under the Eurocode 7 guidance.

DETAILED QUANTITATIVE RISK ASSESSMENTS AND REMEDIAL STRATEGY REPORTS

23. These reports build upon previous report versions and associated notes. The scope of the investigation, further testing and monitoring and associated risk assessments were selected on the basis of the specific development and land use scenario proposed by the Client and may not be appropriate to another form of development or scheme layout. The risk assessment and opinions provided are based on currently available approaches in the generation of Site Specific Assessment Criteria relating to contamination concentrations and are not considered to represent a risk in a specific land use scenario to a specific receptor. No liability can be accepted for the retrospective effects of any future changes or amendments to these values, associated models or associated guidance.



REPORT LIMITATIONS - GROUND RISK AND REMEDIATION

24. The outputs of the Detailed Quantitative Risk Assessments are based upon WSP UK Limited manipulation of standard risk assessment models. These are our interpretation of the risk assessment criteria.
25. Prior to adoption on site they will need discussing and agreeing with the Regulatory Authorities prior to adoption on site. The regulatory discussion and engagement process may result in an alternative interpretation being determined and agreed. The process and timescales associated with the Regulatory Authority engagement are not within the control of WSP UK Limited. All costs and programmes presented as a result of this process should be validated by a quantity surveyor and should be presumed to be indicative.

GEOTECHNICAL DESIGN REPORT (GDR)

26. The GDR can only be prepared following confirmation of all structural loads and serviceability requirements. All the relevant information needs to be provided to allow for a GDR to be produced.

MONITORING (INCLUDING REMEDIATION MONITORING REPORTS)

27. These reports are factual in nature and comprise monitoring, normally groundwater and ground gas and data provided by contractors as part of an earthworks or remedial works.
28. The data is presented and will be compared with assessment criteria.

Annex C

CIRIA RISK DEFINITIONS

CIRIA RISK DEFINITIONS

Table A1 - Classifications of Probability

Classification	Definition
High Likelihood	There is a pollution linkage / identified geotechnical hazard and an event that either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution.
Likely	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low Likelihood	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term.
Unlikely	There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term

Table A2 - Classifications of Consequence

Classification	Definition
Severe	Short-term (acute) risk to human health likely to result in "significant harm" as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resource. Catastrophic damage to buildings/property. A short-term risk to a particular ecosystem, or organism forming part of such ecosystem.
Medium	Chronic damage to Human Health ("significant harm" as defined in DETR, 2000). Pollution of sensitive water resources. A significant change in a particular ecosystem, or organism forming part of such ecosystem.
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services (significant harm as defined in the Draft Circular on Contaminated Land, DETR, 2000). Damage to sensitive buildings/structures/services or the environment.
Minor	Harm, although not necessarily significant harm, which may result in a financial loss, or expenditure to resolve, Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc.). Easily repairable effects of damage to buildings, structures and services

The risk categories presented in this report, taking into account both probability and severity, are based on the matrix presented in **Table A3** below, following CIRIA C552.

Table A3 - Adopted Risk Categories / Comparison of Consequence Against Probability

Probability	Consequence			
	Severe	Medium	Mild	Minor
High Likelihood	Very High Risk	High Risk	Moderate Risk	Low to Moderate Risk
Likely	High Risk	Moderate Risk	Low to Moderate Risk	Low Risk
Low Likelihood	Moderate Risk	Low to Moderate Risk	Low Risk	Very Low Risk
Unlikely	Low to Moderate Risk	Low Risk	Very Low Risk	Very Low Risk

Annex D

SITE PHOTOGRAPHS



Photo 1: Minor fly tipping present along Norman Road.



Photo 2: View west along Norman Road.





Photo 3: Significant fly tipping along southern boundary of Site, including some commercial products (e.g. fridge).



Photo 4: Field in south of Site.





Photo 5: View towards east from field in south of Site.



Photo 6: Pond in field in south of Site.





Photo 7: View of watercourse in south of Site.



Photo 8: Shed, pallets and fencing in field in south of site.





Photo 9: Sandbags adjacent to shed in shown in Photo 8.



Photo 10: Abandoned structure in field in south of site.





Photo 11: Bird box in field in south of site.



Photo 12: Fences separating fields in south of site.





Photo 13: Livestock in within the southern areas of Site.



Photo 14: Ground cover in south of site comprising shrubs, grassland and rushed. Pond visible in middle ground.





Photo 15: Fencing and stile separating fields in south of site.



Photo 16: View towards east. Belvedere Industrial Estate visible in background.





Photo 17: View towards north of Cory Riverside 1 facility.



Photo 18: View towards east of pond in centre of site. Belvedere Industrial Estate visible in background.





Photo 19: Wood and concrete structure to the west of pond shown in Photo 18.



Photo 20: Earth bunds adjacent to structure shown in Photo 19.





Photo 21: Track oriented east-west running through centre of site.



Photo 22: Farming infrastructure in the centre of the site (to the north of the track shown in Photo 21). Cory Riverside 1 facility visible in background.



Photo 23: Storage container visible next to farming infrastructure. Stream in foreground.



Photo 24: View inside farm infrastructure located in centre of site.





Photo 25: Water logged area of land to west of farm infrastructure.



Photo 26: Water logged ground and water storage tank.





Photo 27: General windblown litter and pipes.



Photo 28: View towards west of HZI construction site. Crossness Sewage Treatment Works visible in background.





Photo 29: View towards north-west of HZI construction site.



Photo 30: View towards west of HZI construction site.





Photo 31: ACO drains at HZI construction site.



Photo 32: Great Breach pumping station situated approximately 25m to the west of the Site.





Photo 33: Great Breach pumping station.

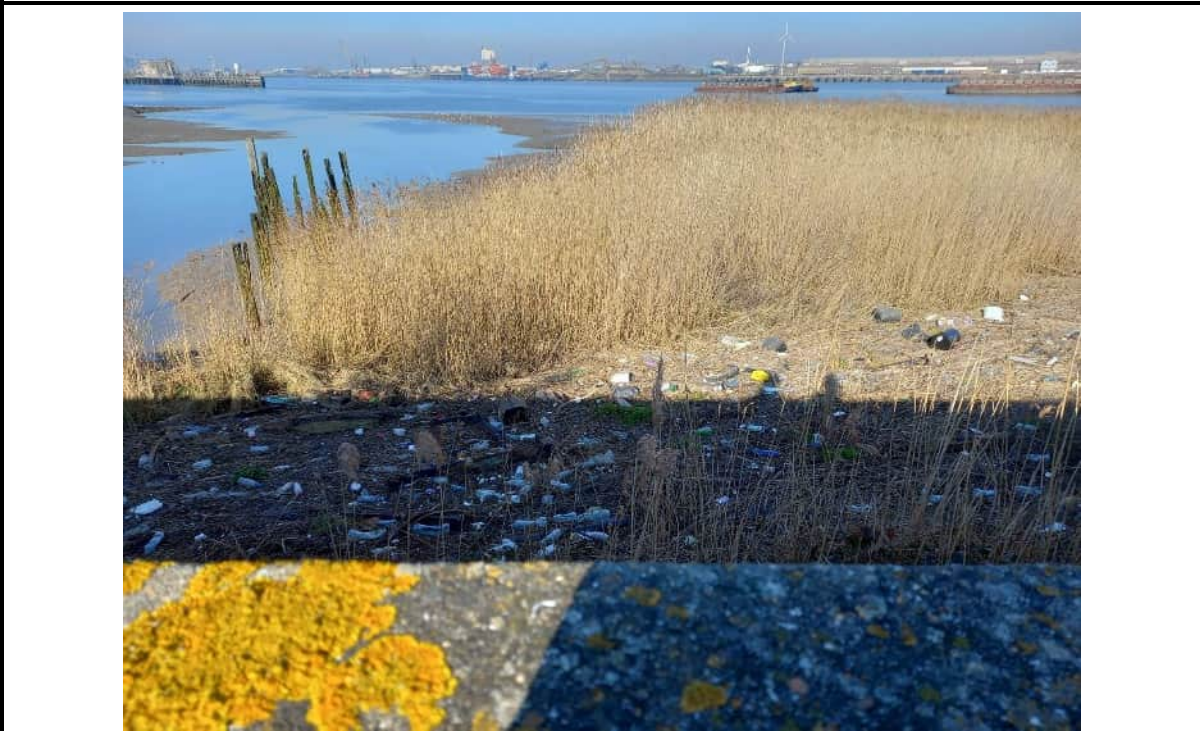


Photo 34: General litter on southern bank of River Thames.





Photo 35: View towards east of Cory Riverside 1 facility.



Photo 36: Vegetated banks in north of site. HZI construction site visible in background.





Photo 37: View towards east of southern bank of River Thames. Public footpath and Cory Riverside 1 facility visible on RHS.

Annex E

GROUNDSURE REPORT

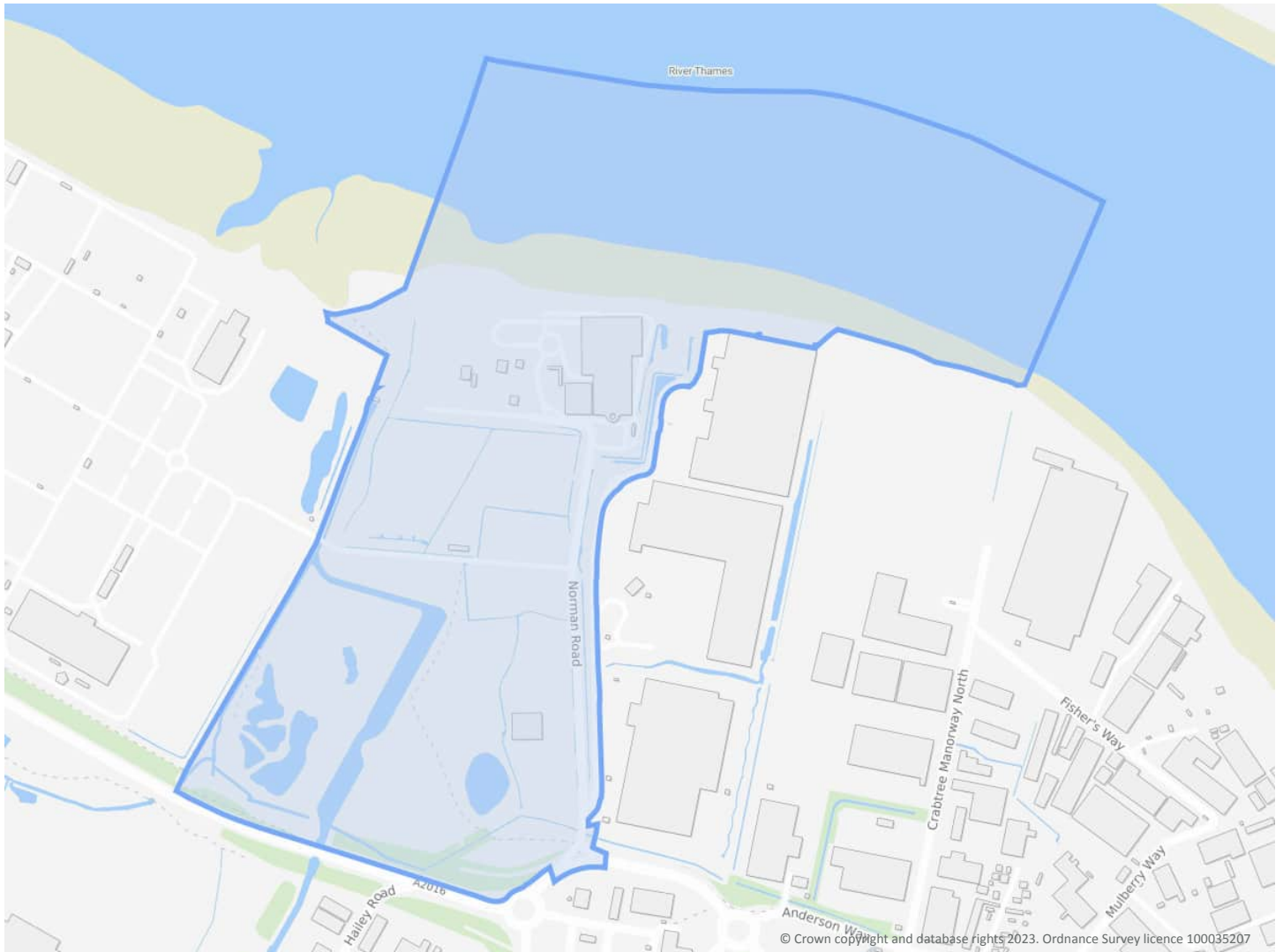
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Order Details

Date: 26/10/2023
Your ref: Cory_Updated_Groundsure_Oct_2023
Our Ref: GS-HKM-NV5-UZJ-NBV

Site Details

Location: 549656 180548
Area: 77.13 ha
Authority: [London Borough of Bexley](#) ↗



[Summary of findings](#)

[p. 2 >](#)

[Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

N/A: >10ha



Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	46	12	25	145	-
23 >	1.2 >	Historical tanks >	4	1	17	128	-
29 >	1.3 >	Historical energy features >	2	1	2	11	-
30	1.4	Historical petrol stations	0	0	0	0	-
30	1.5	Historical garages	0	0	0	0	-
30	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
31 >	2.1 >	Historical industrial land uses >	73	14	52	184	-
43 >	2.2 >	Historical tanks >	5	3	27	175	-
51 >	2.3 >	Historical energy features >	2	1	5	17	-
52	2.4	Historical petrol stations	0	0	0	0	-
52	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
53	3.1	Active or recent landfill	0	0	0	0	-
53	3.2	Historical landfill (BGS records)	0	0	0	0	-
54	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
54 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	3	-
55 >	3.5 >	Historical waste sites >	2	0	3	2	-
58 >	3.6 >	Licensed waste sites >	2	0	6	7	-
62 >	3.7 >	Waste exemptions >	0	0	20	49	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
68 >	4.1 >	Recent industrial land uses >	12	5	37	-	-
72	4.2	Current or recent petrol stations	0	0	0	0	-
72 >	4.3 >	Electricity cables >	6	0	0	2	-
73	4.4	Gas pipelines	0	0	0	0	-
73	4.5	Sites determined as Contaminated Land	0	0	0	0	-



73 >	4.6 >	Control of Major Accident Hazards (COMAH) >	1	1	0	3	-
74	4.7	Regulated explosive sites	0	0	0	0	-
74 >	4.8 >	Hazardous substance storage/usage >	0	0	2	5	-
75 >	4.9 >	Historical licensed industrial activities (IPC) >	5	0	4	17	-
78 >	4.10 >	Licensed industrial activities (Part A(1)) >	14	0	5	27	-
86 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	0	3	-
87	4.12	Radioactive Substance Authorisations	0	0	0	0	-
87 >	4.13 >	Licensed Discharges to controlled waters >	3	0	15	16	-
92	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
92 >	4.15 >	Pollutant release to public sewer >	0	0	1	3	-
93 >	4.16 >	List 1 Dangerous Substances >	0	3	6	7	-
94 >	4.17 >	List 2 Dangerous Substances >	0	0	35	1	-
96 >	4.18 >	Pollution Incidents (EA/NRW) >	1	1	7	5	-
97 >	4.19 >	Pollution inventory substances >	16	0	41	2	-
114 >	4.20 >	Pollution inventory waste transfers >	1	0	1	1	-
118	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
119 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
121 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
123 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
126 >	5.4 >	Groundwater vulnerability- soluble rock risk >	Identified (within 0m)				
126 >	5.5 >	Groundwater vulnerability- local information >	Identified (within 0m)				
127 >	5.6 >	Groundwater abstractions >	1	0	0	0	19
132 >	5.7 >	Surface water abstractions >	1	1	0	0	2
134 >	5.8 >	Potable abstractions >	0	0	0	0	4
135	5.9	Source Protection Zones	0	0	0	0	-
135	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
136 >	6.1 >	Water Network (OS MasterMap) >	65	14	16	-	-



144 >	6.2 >	Surface water features >	1	7	9	-	-
144 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
145 >	6.4 >	WFD Surface water bodies >	1	0	0	-	-
145 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
146 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
147 >	7.2 >	Historical Flood Events >	1	0	0	-	-
147 >	7.3 >	Flood Defences >	22	2	2	-	-
148 >	7.4 >	Areas Benefiting from Flood Defences >	1	0	0	-	-
149	7.5	Flood Storage Areas	0	0	0	-	-
150 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
151 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
152 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
154 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
155 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	3
156	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
156	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
156	10.4	Special Protection Areas (SPA)	0	0	0	0	0
156	10.5	National Nature Reserves (NNR)	0	0	0	0	0
157 >	10.6 >	Local Nature Reserves (LNR) >	1	0	0	0	8
157 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	2
158	10.8	Biosphere Reserves	0	0	0	0	0
158	10.9	Forest Parks	0	0	0	0	0
158	10.10	Marine Conservation Zones	0	0	0	0	0
158	10.11	Green Belt	0	0	0	0	0
158	10.12	Proposed Ramsar sites	0	0	0	0	0



159	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
159	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
159	10.15	Nitrate Sensitive Areas	0	0	0	0	0
159 >	10.16 >	Nitrate Vulnerable Zones >	0	0	0	0	2
161 >	10.17 >	SSSI Impact Risk Zones >	6	-	-	-	-
164 >	10.18 >	SSSI Units >	0	0	0	0	6
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
167	11.1	World Heritage Sites	0	0	0	-	-
167	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
167	11.3	National Parks	0	0	0	-	-
167	11.4	Listed Buildings	0	0	0	-	-
168	11.5	Conservation Areas	0	0	0	-	-
168	11.6	Scheduled Ancient Monuments	0	0	0	-	-
168	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
169 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
170	12.2	Open Access Land	0	0	0	-	-
170	12.3	Tree Felling Licences	0	0	0	-	-
170	12.4	Environmental Stewardship Schemes	0	0	0	-	-
170	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
171 >	13.1 >	Priority Habitat Inventory >	27	18	12	-	-
174 >	13.2 >	Habitat Networks >	9	0	6	-	-
174 >	13.3 >	Open Mosaic Habitat >	0	0	1	-	-
175	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
176 >	14.1 >	10k Availability >	Identified (within 500m)				
178 >	14.2 >	Artificial and made ground (10k) >	3	0	1	4	-
180 >	14.3 >	Superficial geology (10k) >	6	0	0	5	-

181	14.4	Landslip (10k)	0	0	0	0	-
182 >	14.5 >	Bedrock geology (10k) >	4	0	1	3	-
183	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
184 >	15.1 >	50k Availability >	Identified (within 500m)				
185 >	15.2 >	Artificial and made ground (50k) >	2	0	1	3	-
186 >	15.3 >	Artificial ground permeability (50k) >	3	0	-	-	-
187 >	15.4 >	Superficial geology (50k) >	3	0	0	1	-
188 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
188	15.6	Landslip (50k)	0	0	0	0	-
188	15.7	Landslip permeability (50k)	None (within 50m)				
189 >	15.8 >	Bedrock geology (50k) >	3	0	1	0	-
190 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
190	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
191 >	16.1 >	BGS Boreholes >	79	19	30	-	-
Page	Section	Natural ground subsidence >					
198 >	17.1 >	Shrink swell clays >	Low (within 50m)				
199 >	17.2 >	Running sands >	Moderate (within 50m)				
201 >	17.3 >	Compressible deposits >	High (within 50m)				
203 >	17.4 >	Collapsible deposits >	Negligible (within 50m)				
204 >	17.5 >	Landslides >	Very low (within 50m)				
205 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
207	18.1	BritPits	0	0	0	0	-
208 >	18.2 >	Surface ground workings >	28	5	14	-	-
210	18.3	Underground workings	0	0	0	0	0
210	18.4	Underground mining extents	0	0	0	0	-
210	18.5	Historical Mineral Planning Areas	0	0	0	0	-



210 >	18.6 >	Non-coal mining >	0	0	1	1	11
212	18.7	JPB mining areas	None (within 0m)				
212	18.8	The Coal Authority non-coal mining	0	0	0	0	-
212	18.9	Researched mining	0	0	0	0	-
213	18.10	Mining record office plans	0	0	0	0	-
213	18.11	BGS mine plans	0	0	0	0	-
213	18.12	Coal mining	None (within 0m)				
213	18.13	Brine areas	None (within 0m)				
213	18.14	Gypsum areas	None (within 0m)				
214	18.15	Tin mining	None (within 0m)				
214	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes >	On site	0-50m	50-250m	250-500m	500-2000m
215	19.1	Natural cavities	0	0	0	0	-
216 >	19.2 >	Mining cavities >	0	0	0	0	2
216	19.3	Reported recent incidents	0	0	0	0	-
216	19.4	Historical incidents	0	0	0	0	-
217	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
218 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
220 >	21.1 >	BGS Estimated Background Soil Chemistry >	34	9	-	-	-
222 >	21.2 >	BGS Estimated Urban Soil Chemistry >	107	25	-	-	-
227 >	21.3 >	BGS Measured Urban Soil Chemistry >	4	1	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
228	22.1	Underground railways (London)	0	0	0	-	-
228	22.2	Underground railways (Non-London)	0	0	0	-	-
229	22.3	Railway tunnels	0	0	0	-	-
229 >	22.4 >	Historical railway and tunnel features >	9	4	30	-	-
231	22.5	Royal Mail tunnels	0	0	0	-	-



231	22.6	Historical railways	0	0	0	-	-
231	22.7	Railways	0	0	0	-	-
231	22.8	Crossrail 1	0	0	0	0	-
231	22.9	Crossrail 2	0	0	0	0	-
232	22.10	HS2	0	0	0	0	-

Recent aerial photograph



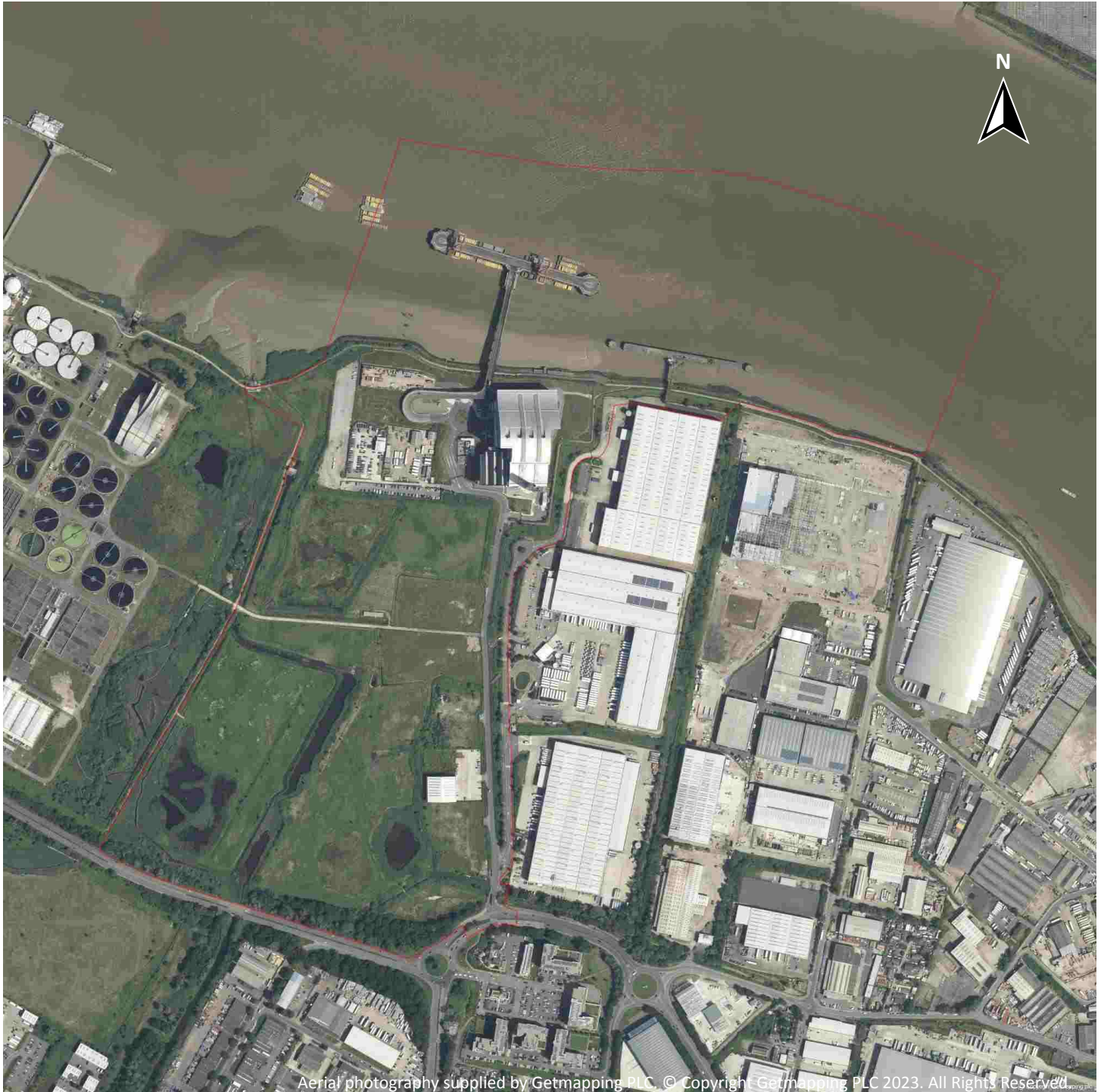
Aerial photography supplied by Getmapping PLC. © Copy

Capture Date: 30/04/2022

Site Area: 77.13ha



Recent site history - 2021 aerial photograph

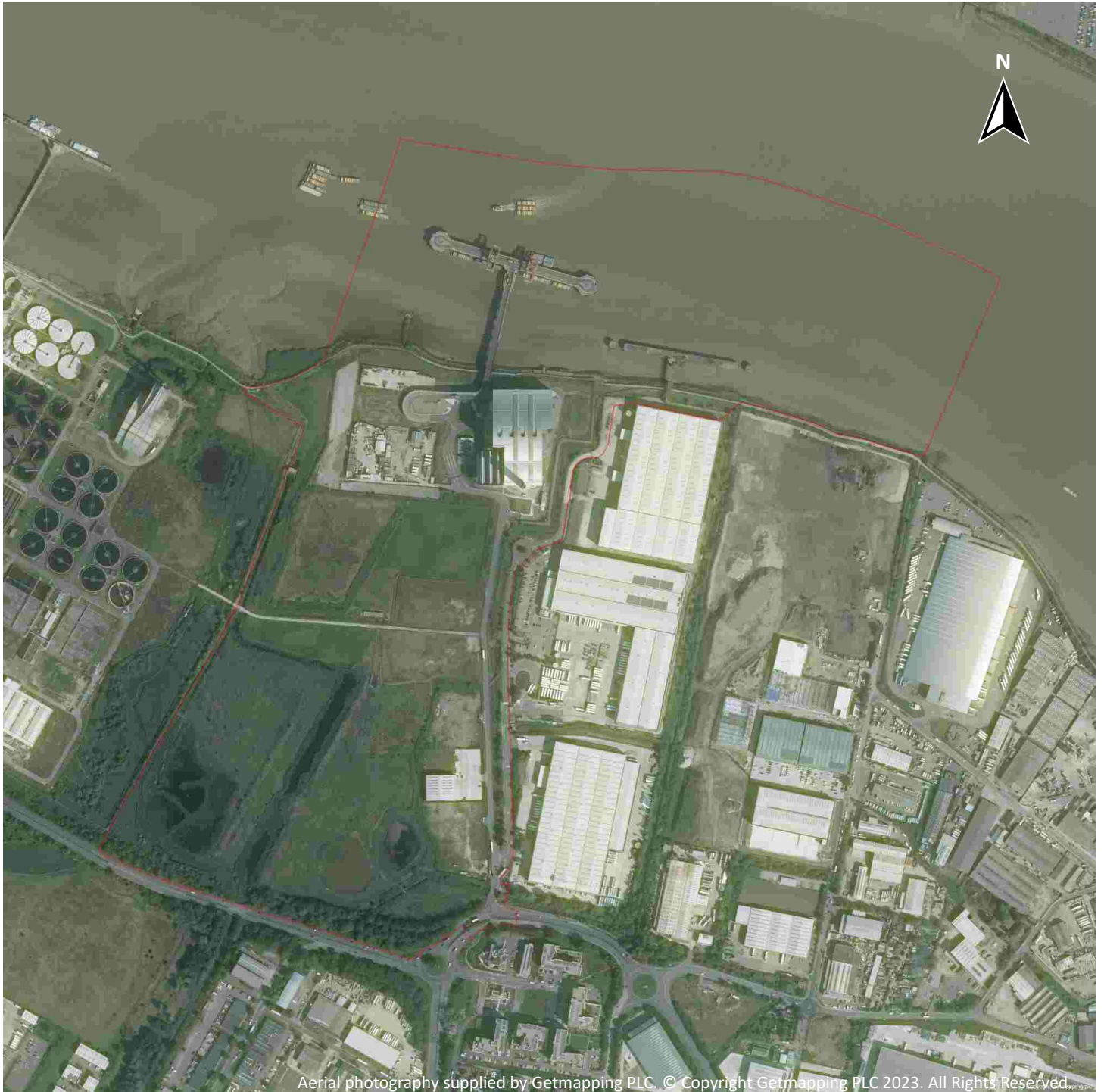


Capture Date: 17/07/2021

Site Area: 77.13ha



Recent site history - 2018 aerial photograph



Capture Date: 01/09/2018

Site Area: 77.13ha



Recent site history - 2010 aerial photograph



Capture Date: 24/04/2010

Site Area: 77.13ha



Recent site history - 1999 aerial photograph

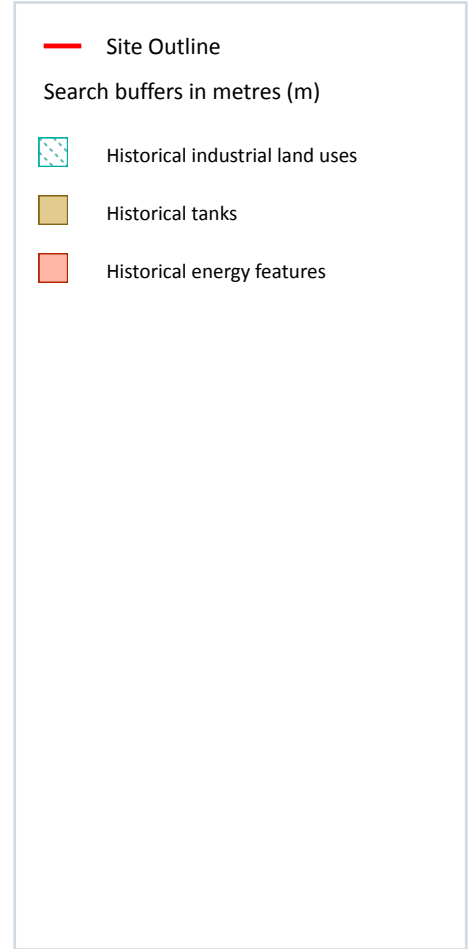
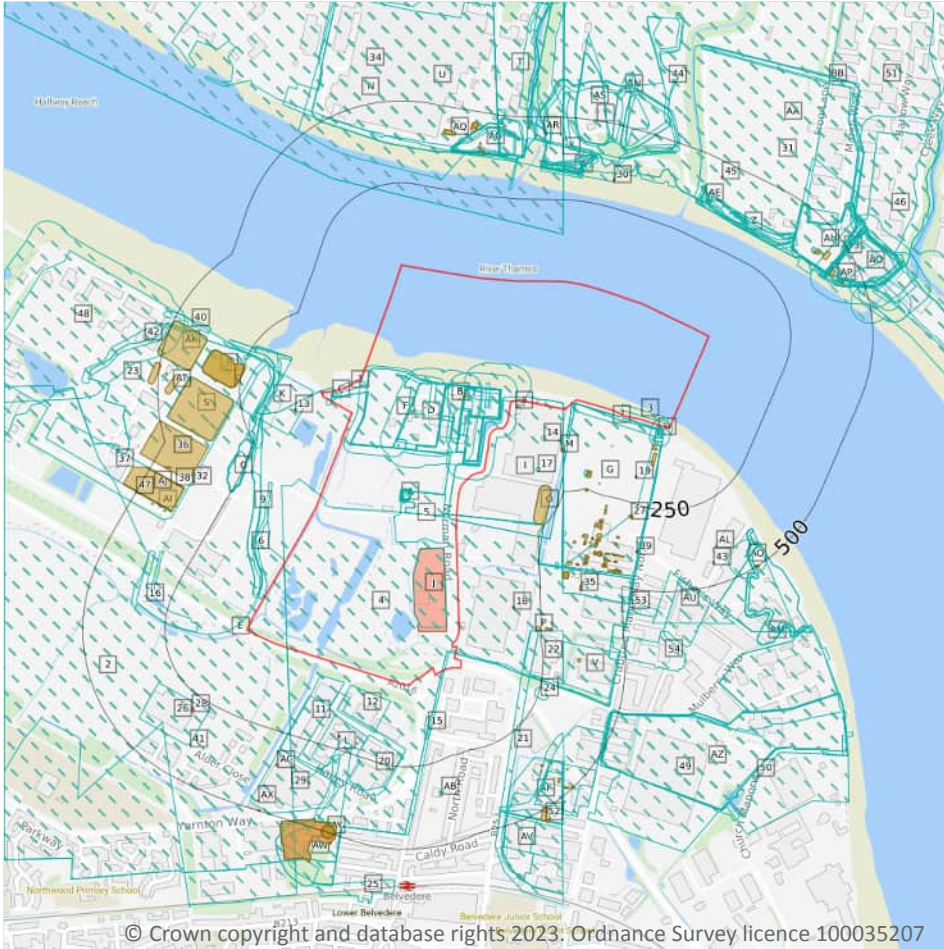


Capture Date: 06/09/1999

Site Area: 77.13ha



1 Past land use



1.1 Historical industrial land uses

Records within 500m

228

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	Unspecified Heap	1907	2136975

ID	Location	Land use	Dates present	Group ID
2	On site	Marshes	1899	2180988
3	On site	Unspecified Wharf	1967 - 1992	2241679
4	On site	Marshes	1898	2258254
5	On site	Refuse Heap	1969 - 1995	2268524
A	On site	Unspecified Pit	1921	2126011
A	On site	Unspecified Heap	1938	2136980
A	On site	Refuse Heap	1907	2197258
A	On site	Refuse Heap	1921 - 1938	2199130
A	On site	Refuse Heap	1915	2227133
A	On site	Refuse Heap	1907	2233094
A	On site	Refuse Heap	1949	2264411
B	On site	Unspecified Commercial/Industrial	1898	2131099
B	On site	Manure Works	1866	2142868
B	On site	Unspecified Wharf	1969	2157317
B	On site	Disused Bovril Mills	1898	2163886
B	On site	Unspecified Disused Mills	1895	2167090
B	On site	Railway Sidings	1895 - 1898	2173297
B	On site	Unspecified Mill	1969 - 1995	2192645
B	On site	Unspecified Mills	1889 - 1895	2207941
B	On site	Mills	1907 - 1915	2221114
B	On site	Unspecified Mills	1949	2226914
B	On site	Unspecified Mills	1907	2252569
B	On site	Mills	1921	2256667
B	On site	Unspecified Mills	1938	2259535
B	On site	Unspecified Mills	1921	2269812
C	On site	Powder Magazine	1866	2145445
C	On site	Magazine	1898	2157863
C	On site	Magazine	1895	2217992



ID	Location	Land use	Dates present	Group ID
D	On site	Oil Works	1898	2164653
D	On site	Fish Guano Works	1921	2194734
D	On site	Fish Guano Works	1949	2241268
D	On site	Fish Guano Works	1921 - 1938	2255530
D	On site	Fish Guano Works	1907 - 1915	2258621
E	On site	Marshes	1907 - 1915	2172068
E	On site	Marshes	1921	2229391
F	On site	Fish, Guano and Oil Works	1895	2174757
F	On site	Fish Works	1907	2198140
F	On site	Fish Works	1938	2287005
G	On site	Railway Sidings	1967 - 1973	2182204
G	On site	Unspecified Works	1955	2191374
G	On site	Unspecified Depot	1967 - 1973	2258743
H	On site	Magazine	1895	2227937
I	On site	Unspecified Works	1969	2236699
I	On site	Unspecified Works	1974 - 1995	2245491
J	On site	Unspecified Works	1969 - 1995	2270103
H	1m E	Powder Magazine	1877	2197419
6	3m SW	Unspecified Ground Workings	1974	2134196
H	5m E	Powder Magazine	1863	2278120
7	6m E	Railway Sidings	1955	2256304
H	6m E	Magazine	1895 - 1898	2229409
G	7m E	Unspecified Works	1992	2169274
G	7m E	Unspecified Works	1992	2169275
H	7m E	Magazine	1888	2252320
9	20m SW	Unspecified Heap	1921	2136981
10	21m SW	Unspecified Heaps	1969	2160813
K	26m NW	Sludge Lagoons	1983 - 1995	2290325



ID	Location	Land use	Dates present	Group ID
11	49m SW	Unspecified Works	1985 - 1995	2194901
12	51m SW	Unspecified Depot	1985 - 1995	2267663
L	83m SW	Unspecified Depot	1974	2257777
14	92m E	Chimney	1969 - 1995	2255734
15	111m S	Pumping Station	1985 - 1995	2280989
K	127m NW	Railway Sidings	1895	2269022
K	132m NW	Road and Rail Wagon Works	1889	2151484
K	136m NW	Railway Sidings	1899	2230385
N	145m NE	Railway Sidings	1967 - 1974	2188488
N	145m NE	Railway Sidings	1938 - 1995	2221017
16	149m SW	Unspecified Ground Workings	1921	2134194
L	150m SW	Unspecified Warehouse	1985 - 1995	2250571
17	155m E	Chimney	1969 - 1995	2273267
20	178m S	Unspecified Warehouse	1985 - 1995	2179775
O	179m E	Unspecified Tanks	1969 - 1995	2285757
21	187m S	Railway Sidings	1974	2290636
22	190m S	Unspecified Works	1995	2160077
G	195m E	Unspecified Tanks	1955	2144080
G	198m E	Unspecified Tank	1967 - 1992	2291329
23	202m NW	Sewage Works	1969 - 1995	2266452
Q	237m W	Unspecified Ground Workings	1921	2268230
24	238m S	Refuse Heap	1966 - 1974	2253699
Q	239m W	Unspecified Ground Workings	1907 - 1915	2285770
Q	240m W	Unspecified Ground Workings	1907	2235107
R	241m NW	Unspecified Tanks	1969 - 1995	2259472
R	242m NW	Unspecified Heap	1895	2136974
25	260m S	Railway Sidings	1966	2251070
S	267m W	Unspecified Tanks	1969 - 1995	2242202



ID	Location	Land use	Dates present	Group ID
26	272m SW	Unspecified Depot	1995	2147221
T	275m N	Unspecified Commercial/Industrial	1940	2275543
U	278m N	Motor Cars Manufactory	1949	2151289
G	298m SE	Unspecified Tank	1973	2155471
G	299m SE	Unspecified Tank	1973	2155472
29	299m SW	Unspecified Factory	1985 - 1995	2293849
G	306m SE	Unspecified Tank	1973	2155470
V	311m SE	Unspecified Warehouse	1967	2138617
W	320m NE	Railway Sidings	1921	2270176
G	324m SE	Unspecified Tanks	1992	2144079
X	326m NE	Railway Sidings	1940	2198989
W	331m NE	Railway Sidings	1915	2287151
W	333m NE	Railway Sidings	1938	2211946
W	334m NE	Railway Sidings	1938	2261837
Y	334m NE	Refuse Heap	1938	2195471
Z	334m NE	Railway Sidings	1921	2253435
31	336m NE	Refuse Heap	1938	2265695
W	336m NE	Railway Sidings	1931	2261167
Z	336m NE	Railway Sidings	1938	2220905
AA	337m NE	Marshes	1915	2203109
AA	337m NE	Marshes	1921	2221234
W	337m NE	Unspecified Wharf	1973 - 1992	2187043
W	337m NE	Unspecified Wharf	1967	2255516
AB	338m S	Unspecified Tank	1921	2231216
Z	339m NE	Railway Sidings	1921 - 1931	2188046
AB	339m S	Unspecified Tank	1907	2287547
W	339m NE	Unspecified Wharf	1940	2245687
AB	341m S	Tank	1915	2140313



ID	Location	Land use	Dates present	Group ID
Z	343m NE	Railway Sidings	1938	2180160
AA	347m NE	Marshes	1888	2241895
Z	348m NE	Railway Sidings	1915	2248121
AD	351m NE	Unspecified Commercial/Industrial	1921	2286088
AE	352m NE	Railway Buildings	1931	2163711
Z	352m NE	Railway Building	1921	2258669
AF	353m S	Unspecified Works	1966	2202377
Z	356m NE	Railway Buildings	1931	2163712
U	358m N	Motor Works	1974 - 1983	2251088
U	358m N	Motor Works	1995	2256104
U	358m N	Unspecified Works	1969	2265066
Z	360m NE	Railway Building	1915	2190432
Z	360m NE	Railway Building	1921	2249931
AF	360m S	Railway Sidings	1966	2245632
W	363m NE	Railway Building	1915	2150049
AG	363m N	Candle Manufactory	1889	2194654
Z	364m NE	Railway Building	1921	2150047
AE	364m NE	Railway Building	1921	2271791
AG	364m N	Candle Manufactory	1907	2237920
33	364m NE	Cement Works	1895	2265419
AH	364m NE	Refuse Heap	1895	2200602
Z	364m NE	Railway Building	1931	2241727
AH	365m NE	Refuse Heap	1888	2253697
AH	365m NE	Cement Works	1888	2266121
AH	366m NE	Refuse Heap	1907	2215617
Z	367m NE	Railway Building	1915	2184714
AG	368m N	Candle Factory	1895	2129013
34	369m N	Dock	1938	2192303



ID	Location	Land use	Dates present	Group ID
AG	369m N	Candle Manufactory	1898	2193958
U	371m N	Unspecified Commercial/Industrial	1938	2179278
Z	371m NE	Railway Building	1921	2150048
AE	372m NE	Railway Building	1915	2243676
AG	372m N	Unspecified Ground Workings	1921	2134272
AG	372m N	Candle Manufactory	1895	2232637
AG	376m N	Unspecified Tank	1907	2155473
37	376m W	Unspecified Tanks	1969 - 1995	2229012
AG	377m N	Tank	1907	2140302
AG	378m N	Unspecified Commercial/Industrial	1907	2251865
AG	378m N	Unspecified Industrial/Commercial	1888	2164927
AF	380m S	Unspecified Works	1967 - 1973	2291487
AD	381m NE	Unspecified Commercial/Industrial	1940	2222441
AK	383m NW	Unspecified Tanks	1969 - 1995	2191523
40	387m NW	Refuse Heap	1949	2158882
AE	392m NE	Unspecified Tank	1938	2171351
AF	392m S	Unspecified Warehouse	1995	2175845
AF	392m S	Unspecified Works	1974	2277714
AE	393m NE	Unspecified Tank	1940	2227350
AE	394m NE	Unspecified Tank	1931	2204276
AD	394m NE	Unspecified Commercial/Industrial	1921 - 1931	2232814
AM	395m E	Unspecified Ground Workings	1940	2258885
T	395m N	Railway Sidings	1940	2267910
AM	395m E	Unspecified Ground Workings	1931	2259479
AD	396m NE	Cement Works	1895 - 1907	2284448
AE	396m NE	Unspecified Tank	1921	2174536
AM	397m E	Unspecified Heap	1938	2225544
X	399m NE	Unspecified Ground Workings	1967	2292283



ID	Location	Land use	Dates present	Group ID
AN	400m NE	Refuse Heap	1915	2260763
AE	401m NE	Unspecified Tank	1921	2182997
Y	402m NE	Refuse Heap	1931	2278557
AE	403m NE	Tank	1915	2140307
AE	404m NE	Unspecified Tank	1938	2255588
AH	406m NE	Unspecified Tank	1940	2155474
AD	407m NE	Unspecified Commercial/Industrial	1938	2260869
AO	410m E	Unspecified Tanks	1973	2144081
AD	410m NE	Unspecified Depot	1967 - 1973	2219891
AF	411m S	Unspecified Warehouse	1985	2278838
AP	413m NE	Unspecified Heap	1907	2136952
AQ	416m N	Unspecified Tanks	1983 - 1995	2191719
AR	418m N	Unspecified Pit	1949	2283844
AR	423m N	Unspecified Pit	1969	2274199
AD	425m NE	Unspecified Ground Workings	1898	2192884
AD	426m NE	Unspecified Ground Workings	1888	2293438
AS	429m NE	Unspecified Heap	1967	2212777
AS	430m NE	Unspecified Heap	1940	2252479
AF	430m S	Unspecified Works	1973	2252834
AN	430m NE	Unspecified Ground Workings	1955	2172310
42	430m NW	Unspecified Pit	1895	2284396
44	432m NE	Unspecified Ground Workings	1940	2228749
AN	435m NE	Unspecified Heap	1967	2136953
AU	438m SE	Unspecified Commercial/Industrial	1973 - 1992	2244089
AG	439m N	Railway Sidings	1907	2242590
AD	443m E	Unspecified Wharf	1921 - 1931	2172934
AM	445m E	Unspecified Works	1967 - 1973	2277486
AM	445m E	Unspecified Commercial/Industrial	1992	2285500



ID	Location	Land use	Dates present	Group ID
AN	447m NE	Refuse Heap	1940	2239588
AG	447m N	Unspecified Tank	1969 - 1974	2288592
46	454m E	Timber Yard	1992	2268900
AU	459m SE	Refuse Heap	1967	2178312
48	462m NW	Drainage Works	1921	2196142
AV	463m S	Unspecified Works	1974	2216971
AV	464m S	Unspecified Works	1985 - 1995	2265743
AW	464m S	Unspecified Works	1966 - 1974	2277677
AW	468m S	Gas Holder Station	1985 - 1995	2275878
AV	472m S	Unspecified Works	1966	2195254
AG	473m N	Refuse Heap	1888	2271477
49	473m SE	Unspecified Works	1958 - 1967	2285005
AD	474m E	Unspecified Pit	1921	2126006
AY	476m S	Unspecified Tank	1966 - 1974	2174289
AY	476m S	Gasometer	1985 - 1995	2249363
BA	477m SE	Cable Construction Works	1940	2257277
AZ	477m SE	Tramway Sidings	1940	2191953
AZ	479m SE	Cable Construction Works	1938	2249848
BA	479m SE	Cable Construction Works	1931	2199144
AZ	479m SE	Tramway Sidings	1931	2272675
AG	479m N	Unspecified Tank	1983	2155492
AG	479m N	Chimneys	1969 - 1974	2181320
BB	481m NE	Refuse Heap	1915	2175224
50	482m SE	Cable Construction Works	1938	2262821
AG	483m N	Refuse Heap	1907	2195203
51	484m NE	Industrial Park	1992	2142979
AG	485m N	Chimneys	1969 - 1974	2206251
BB	490m NE	Refuse Heap	1931	2243012



ID	Location	Land use	Dates present	Group ID
AD	493m E	Unspecified Wharf	1895	2215136
53	495m SE	Unspecified Works	1973 - 1992	2249642
54	499m SE	Unspecified Depot	1973 - 1995	2240381

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	150
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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
B	On site	Tanks	1991	377210
B	On site	Tanks	1991	377211
B	On site	Unspecified Tank	1991 - 1996	398529
D	On site	Unspecified Tank	1991	367663
8	12m NE	Unspecified Tank	1963 - 1996	392719
H	60m E	Tanks	1975	377250
H	83m E	Tanks	1975	377251
13	90m W	Unspecified Tank	1984 - 1992	391382
M	119m E	Unspecified Tank	1963 - 1996	400869
M	120m E	Unspecified Tank	1992	410022
M	120m E	Unspecified Tank	1975	389617
18	163m S	Tanks	1996	377224
O	178m SE	Tanks	1963	377223
G	196m E	Tanks	1959 - 1970	398152
G	197m E	Tanks	1997	410016



ID	Location	Land use	Dates present	Group ID
G	204m E	Unspecified Tank	1959 - 1970	392598
L	213m S	Unspecified Tank	1976	366663
G	217m E	Unspecified Tank	1959 - 1963	411004
L	227m S	Unspecified Tank	1976 - 1982	402697
P	235m SE	Unspecified Tank	1996	366667
R	243m W	Tanks	1967 - 1992	399449
R	244m W	Unspecified Tank	1969 - 1984	408572
G	251m E	Unspecified Tank	1959 - 1970	399220
G	251m E	Unspecified Tank	1963 - 1997	390710
R	257m W	Unspecified Tank	1969 - 1984	400396
P	262m SE	Unspecified Tank	1996	366666
R	265m W	Tanks	1992	388819
S	272m W	Tanks	1967 - 1992	387208
G	278m E	Tanks	1970	377232
27	287m E	Tanks	1970 - 1984	398990
G	288m E	Tanks	1984	377233
28	288m SW	Unspecified Tank	1989	366662
G	294m E	Tanks	1970	377234
G	319m SE	Unspecified Tank	1996	366665
G	320m SE	Tanks	1984	405287
G	321m SE	Tanks	1997	409970
G	321m SE	Tanks	1970	392572
G	321m SE	Tanks	1984	377230
G	324m SE	Tanks	1984	377231
30	328m NE	Unspecified Tank	1939	367692
G	332m SE	Tanks	1984	377229
G	332m SE	Tanks	1984	377235
G	336m SE	Tanks	1984 - 1997	408033



ID	Location	Land use	Dates present	Group ID
G	339m SE	Tanks	1984 - 1997	393085
G	340m SE	Tanks	1984	377236
AC	347m SW	Tanks	1976	376874
AC	347m SW	Unspecified Tank	1982	366661
G	348m SE	Unspecified Tank	1970	367661
AB	350m S	Unspecified Tank	1920	366660
V	354m SE	Unspecified Tank	1990 - 1999	384509
G	360m SE	Tanks	1984	377226
G	361m SE	Tanks	1970	401551
G	361m SE	Tanks	1984	403387
G	361m SE	Tanks	1970	386642
G	363m SE	Tanks	1997	385641
32	363m W	Unspecified Tank	1992	367660
G	366m SE	Tanks	1984 - 1997	400141
35	370m SE	Tanks	1984 - 1997	383754
AG	371m N	Unspecified Tank	1939	367687
36	373m W	Tanks	1967	409383
G	373m SE	Tanks	1970 - 1984	385438
AI	376m W	Tanks	1967	405530
AJ	376m W	Tanks	1967	403597
38	377m W	Tanks	1967	403064
G	378m SE	Tanks	1984	377225
AG	379m N	Unspecified Tank	1897 - 1909	396716
AG	381m N	Unspecified Tank	1962	388223
AG	381m N	Unspecified Tank	1962	396603
G	381m SE	Tanks	1984	408868
AK	382m NW	Tanks	1967 - 1992	385685
G	382m SE	Unspecified Tank	1970 - 1984	395963



ID	Location	Land use	Dates present	Group ID
G	382m SE	Unspecified Tank	1984 - 1997	405388
G	383m SE	Tanks	1997	394198
AF	383m S	Tanks	1982 - 1985	382398
AF	384m S	Tanks	1975	399698
G	385m SE	Unspecified Tank	1984	367662
G	385m SE	Tanks	1997	383032
AL	386m E	Unspecified Tank	1984	384477
AG	386m N	Unspecified Tank	1897	367686
G	387m SE	Tanks	1984	380695
AL	387m E	Unspecified Tank	1997	398800
G	390m SE	Tanks	1984	399541
G	391m SE	Tanks	1984	402822
AG	393m N	Unspecified Tank	1939	367685
AE	393m NE	Unspecified Tank	1920 - 1939	408190
AI	393m W	Tanks	1992	377222
G	396m SE	Tanks	1997	377227
G	397m SE	Tanks	1984	403934
AF	399m S	Unspecified Tank	1975 - 1985	390814
AF	400m S	Unspecified Tank	1975	366664
AG	402m N	Unspecified Tank	1962	394879
AG	403m N	Unspecified Tank	1962	381819
AH	407m NE	Unspecified Tank	1939	367688
AH	412m NE	Tanks	1990	377240
AP	412m NE	Tanks	1897	377238
G	412m SE	Tanks	1970 - 1997	395463
G	414m SE	Tanks	1984	380899
G	414m SE	Tanks	1970	396110
AQ	416m N	Tanks	1996	405691



ID	Location	Land use	Dates present	Group ID
G	417m SE	Tanks	1997	395736
AQ	417m N	Tanks	1984 - 1990	410708
G	417m SE	Tanks	1984	409958
G	417m SE	Tanks	1984	377228
G	417m SE	Tanks	1997	383546
G	418m SE	Tanks	1984 - 1997	383952
G	420m SE	Tanks	1997	406451
G	421m SE	Unspecified Tank	1984	367720
AH	421m NE	Tanks	1990	377237
G	422m SE	Tanks	1984	388243
G	425m SE	Tanks	1970 - 1984	389570
AT	430m W	Tanks	1992	377212
43	430m SE	Unspecified Tank	1984	367721
G	433m SE	Unspecified Tank	1984 - 1997	393402
G	434m SE	Unspecified Tank	1970	407585
AP	436m NE	Unspecified Tank	1897	367713
AI	437m W	Tanks	1992	377221
AG	437m N	Unspecified Tank	1939	386749
G	437m SE	Tanks	1984	410403
AP	437m NE	Unspecified Tank	1897	367714
G	438m SE	Tanks	1997	394891
G	441m SE	Tanks	1970 - 1984	387744
G	441m SE	Tanks	1997	411314
AJ	441m W	Tanks	1967	402957
G	445m SE	Tanks	1970 - 1984	411196
G	446m SE	Tanks	1984	381708
G	446m SE	Tanks	1970	396277
AF	446m S	Unspecified Tank	1985 - 1990	386827



ID	Location	Land use	Dates present	Group ID
AG	447m N	Unspecified Tank	1962 - 1972	382427
AG	447m N	Unspecified Tank	1962	381965
AF	449m S	Unspecified Tank	1975 - 1985	387079
G	456m SE	Tanks	1970 - 1984	407572
G	456m SE	Tanks	1970	405093
G	457m SE	Tanks	1997	388811
G	457m SE	Tanks	1970	384708
G	459m SE	Tanks	1984 - 1997	389837
47	461m W	Tanks	1967	403438
G	462m SE	Tanks	1970	400935
AW	468m S	Gasholder Station	1976 - 1992	407346
AX	470m SW	Unspecified Tank	1976 - 1992	407782
AT	474m W	Unspecified Tank	1992	367664
AY	479m S	Unspecified Tank	1957 - 1964	384030
AY	479m S	Gasholder	1976 - 1992	398624
AY	479m S	Unspecified Tank	1957	397830
AF	480m S	Tanks	1985 - 1990	389825
AF	480m S	Tanks	1971	388915
52	492m S	Tanks	1996	376866
AF	493m S	Tanks	1971 - 1990	404160
AO	495m E	Tanks	1992	402149
AO	495m E	Tanks	1970	381968
AT	496m W	Tanks	1992	377213

This data is sourced from Ordnance Survey / Groundsure.



1.3 Historical energy features

Records within 500m

16

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
D	On site	Electricity Substation	1991	247044
J	On site	Electricity Substation	1996	247042
H	27m E	Electricity Transformer	1975	250820
19	168m E	Electricity Substation	1970 - 1997	275721
L	208m S	Electricity Substation	1976 - 1982	272687
G	363m SE	Electricity Substation	1984	247043
G	366m SE	Electricity Substation	1997	247038
39	383m SE	Electricity Substation	1970 - 1997	292518
G	387m SE	Electricity Substation	1997	247039
41	388m SW	Electricity Substation	1989	247041
45	451m NE	Electricity Substation	1992	247030
AR	464m N	Electricity Substation	1996	247025
AW	468m S	Gasholder Station	1976 - 1992	277540
AR	468m N	Electricity Substation	1984 - 1990	257292
AY	479m S	Gasholder	1976 - 1992	269216
AX	496m SW	Electricity Substation	1976 - 1992	281379

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

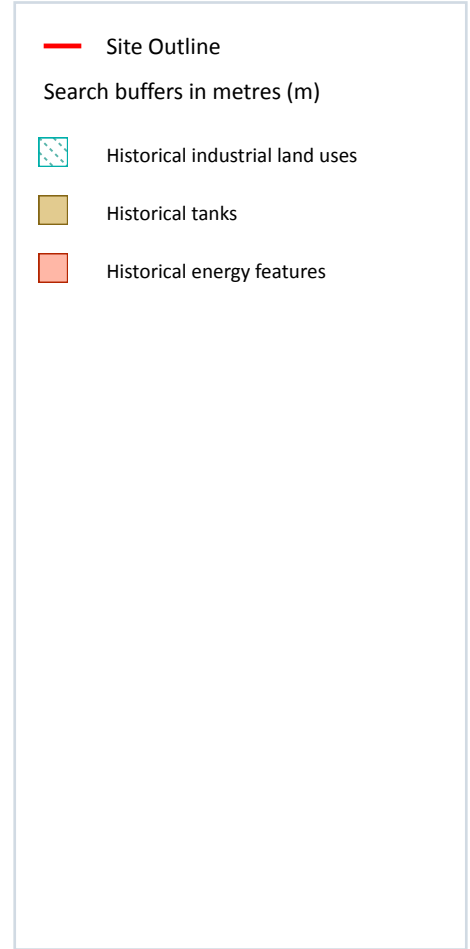
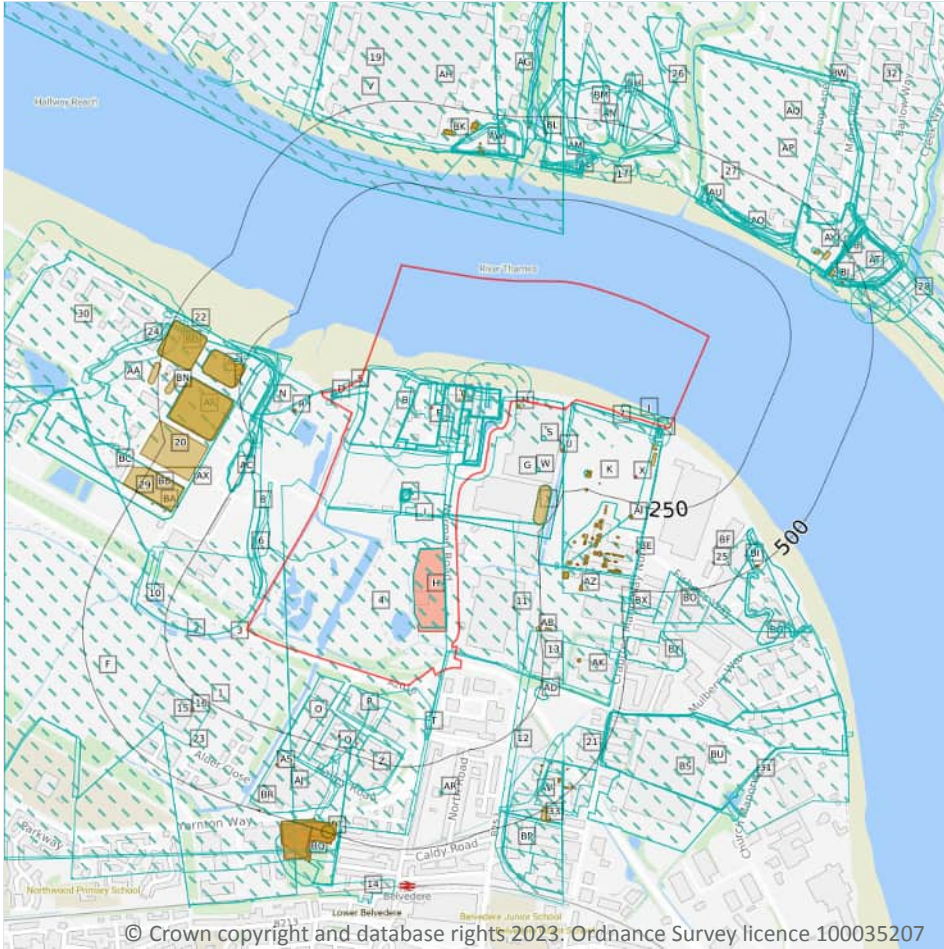
Records within 500m

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

323

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 31](#) >

ID	Location	Land Use	Date	Group ID
1	On site	Marshes	1907	2172068
2	On site	Marshes	1915	2172068
3	On site	Marshes	1921	2229391

ID	Location	Land Use	Date	Group ID
4	On site	Marshes	1898	2258254
5	On site	Unspecified Heap	1907	2136975
A	On site	Unspecified Pit	1921	2126011
A	On site	Unspecified Heap	1938	2136980
A	On site	Refuse Heap	1907	2233094
A	On site	Refuse Heap	1915	2227133
A	On site	Refuse Heap	1921	2199130
A	On site	Refuse Heap	1949	2264411
A	On site	Refuse Heap	1907	2197258
A	On site	Refuse Heap	1938	2199130
A	On site	Refuse Heap	1938	2199130
B	On site	Fish Works	1938	2287005
B	On site	Fish, Guano and Oil Works	1895	2174757
B	On site	Fish Works	1907	2198140
C	On site	Unspecified Mills	1938	2259535
C	On site	Manure Works	1866	2142868
C	On site	Unspecified Mills	1921	2269812
C	On site	Unspecified Wharf	1969	2157317
C	On site	Mills	1907	2221114
C	On site	Mills	1915	2221114
C	On site	Mills	1921	2256667
C	On site	Unspecified Mills	1889	2207941
C	On site	Railway Sidings	1898	2173297
C	On site	Disused Bovril Mills	1898	2163886
C	On site	Unspecified Commercial/Industrial	1898	2131099
C	On site	Unspecified Mills	1895	2207941
C	On site	Unspecified Mill	1983	2192645
C	On site	Unspecified Mill	1974	2192645



ID	Location	Land Use	Date	Group ID
C	On site	Unspecified Mill	1969	2192645
C	On site	Unspecified Mill	1995	2192645
C	On site	Unspecified Mills	1949	2226914
C	On site	Unspecified Disused Mills	1895	2167090
C	On site	Railway Sidings	1895	2173297
C	On site	Unspecified Mills	1907	2252569
C	On site	Unspecified Mills	1938	2259535
D	On site	Powder Magazine	1866	2145445
D	On site	Magazine	1898	2157863
D	On site	Magazine	1895	2217992
D	On site	Magazine	1895	2217992
E	On site	Fish Guano Works	1921	2194734
E	On site	Fish Guano Works	1907	2258621
E	On site	Fish Guano Works	1915	2258621
E	On site	Fish Guano Works	1921	2255530
E	On site	Oil Works	1898	2164653
E	On site	Fish Guano Works	1949	2241268
E	On site	Fish, Guano and Oil Works	1895	2174757
E	On site	Fish Guano Works	1938	2255530
F	On site	Marshes	1899	2180988
F	On site	Marshes	1899	2180988
G	On site	Unspecified Works	1983	2245491
G	On site	Unspecified Works	1974	2245491
G	On site	Unspecified Works	1969	2236699
G	On site	Unspecified Works	1995	2245491
H	On site	Unspecified Works	1983	2270103
H	On site	Unspecified Works	1974	2270103
H	On site	Unspecified Works	1969	2270103



ID	Location	Land Use	Date	Group ID
H	On site	Unspecified Works	1995	2270103
I	On site	Refuse Heap	1983	2268524
I	On site	Refuse Heap	1974	2268524
I	On site	Refuse Heap	1969	2268524
I	On site	Refuse Heap	1995	2268524
J	On site	Unspecified Wharf	1992	2241679
J	On site	Unspecified Wharf	1973	2241679
J	On site	Unspecified Wharf	1967	2241679
K	On site	Railway Sidings	1973	2182204
K	On site	Unspecified Depot	1973	2258743
K	On site	Unspecified Depot	1967	2258743
K	On site	Railway Sidings	1967	2182204
K	On site	Unspecified Works	1955	2191374
L	On site	Magazine	1895	2227937
L	1m E	Powder Magazine	1877	2197419
6	3m SW	Unspecified Ground Workings	1974	2134196
L	5m E	Powder Magazine	1863	2278120
7	6m E	Railway Sidings	1955	2256304
L	6m E	Magazine	1895	2229409
K	7m E	Unspecified Works	1992	2169274
L	7m E	Magazine	1888	2252320
L	8m E	Magazine	1898	2229409
8	20m SW	Unspecified Heap	1921	2136981
9	21m SW	Unspecified Heaps	1969	2160813
N	26m NW	Sludge Lagoons	1983	2290325
N	26m NW	Sludge Lagoons	1995	2290325
O	49m SW	Unspecified Works	1995	2194901
O	49m SW	Unspecified Works	1985	2194901



ID	Location	Land Use	Date	Group ID
P	51m SW	Unspecified Depot	1995	2267663
P	51m SW	Unspecified Depot	1985	2267663
Q	83m SW	Unspecified Depot	1974	2257777
S	92m E	Chimney	1983	2255734
S	92m E	Chimney	1974	2255734
S	92m E	Chimney	1969	2255734
S	92m E	Chimney	1995	2255734
T	111m S	Pumping Station	1995	2280989
T	111m S	Pumping Station	1985	2280989
N	127m NW	Railway Sidings	1895	2269022
N	132m NW	Road and Rail Wagon Works	1889	2151484
N	136m W	Railway Sidings	1895	2269022
N	136m NW	Railway Sidings	1899	2230385
N	136m NW	Railway Sidings	1899	2230385
V	145m NE	Railway Sidings	1983	2221017
V	145m NE	Railway Sidings	1974	2188488
V	145m NE	Railway Sidings	1969	2188488
10	149m SW	Unspecified Ground Workings	1921	2134194
Q	150m SW	Unspecified Warehouse	1995	2250571
Q	150m SW	Unspecified Warehouse	1985	2250571
W	155m E	Chimney	1983	2273267
W	155m E	Chimney	1974	2273267
W	155m E	Chimney	1969	2273267
W	155m E	Chimney	1995	2273267
Z	178m S	Unspecified Warehouse	1995	2179775
Z	178m S	Unspecified Warehouse	1985	2179775
Y	179m E	Unspecified Tanks	1983	2285757
Y	179m E	Unspecified Tanks	1974	2285757



ID	Location	Land Use	Date	Group ID
Y	179m E	Unspecified Tanks	1969	2285757
Y	179m E	Unspecified Tanks	1995	2285757
V	184m NE	Railway Sidings	1949	2221017
12	187m S	Railway Sidings	1974	2290636
13	190m S	Unspecified Works	1995	2160077
K	195m E	Unspecified Tanks	1955	2144080
K	198m E	Unspecified Tank	1992	2291329
K	198m E	Unspecified Tank	1973	2291329
K	198m E	Unspecified Tank	1967	2291329
AA	202m NW	Sewage Works	1983	2266452
AA	202m NW	Sewage Works	1974	2266452
AA	202m NW	Sewage Works	1969	2266452
AA	202m NW	Sewage Works	1995	2266452
AC	237m W	Unspecified Ground Workings	1921	2268230
AD	238m S	Refuse Heap	1974	2253699
AD	238m S	Refuse Heap	1966	2253699
AC	239m W	Unspecified Ground Workings	1907	2285770
AC	240m W	Unspecified Ground Workings	1907	2235107
AE	241m NW	Unspecified Tanks	1983	2259472
AE	241m NW	Unspecified Tanks	1974	2259472
AE	241m NW	Unspecified Tanks	1969	2259472
AE	241m NW	Unspecified Tanks	1995	2259472
AC	241m W	Unspecified Ground Workings	1915	2285770
AE	242m NW	Unspecified Heap	1895	2136974
14	260m S	Railway Sidings	1966	2251070
K	267m E	Unspecified Works	1992	2169275
AF	267m W	Unspecified Tanks	1983	2242202
AF	267m W	Unspecified Tanks	1974	2242202



ID	Location	Land Use	Date	Group ID
AF	267m W	Unspecified Tanks	1969	2242202
AF	267m W	Unspecified Tanks	1995	2242202
15	272m SW	Unspecified Depot	1995	2147221
AG	275m N	Unspecified Commercial/Industrial	1940	2275543
AH	278m N	Motor Cars Manufactory	1949	2151289
K	298m SE	Unspecified Tank	1973	2155471
K	299m SE	Unspecified Tank	1973	2155472
AJ	299m SW	Unspecified Factory	1995	2293849
AJ	299m SW	Unspecified Factory	1985	2293849
K	306m SE	Unspecified Tank	1973	2155470
AK	311m SE	Unspecified Warehouse	1967	2138617
AL	320m NE	Railway Sidings	1921	2270176
K	324m SE	Unspecified Tanks	1992	2144079
AM	326m NE	Railway Sidings	1940	2198989
AL	331m NE	Railway Sidings	1915	2287151
AL	333m NE	Railway Sidings	1938	2211946
AL	334m NE	Railway Sidings	1938	2261837
AN	334m NE	Refuse Heap	1938	2195471
AN	334m NE	Refuse Heap	1938	2195471
AO	334m NE	Railway Sidings	1921	2253435
AL	336m NE	Railway Sidings	1931	2261167
AO	336m NE	Railway Sidings	1938	2220905
AP	336m NE	Refuse Heap	1938	2265695
AP	336m NE	Refuse Heap	1938	2265695
AQ	337m NE	Marshes	1921	2221234
AL	337m NE	Unspecified Wharf	1992	2187043
AL	337m NE	Unspecified Wharf	1973	2187043
AL	337m NE	Unspecified Wharf	1967	2255516



ID	Location	Land Use	Date	Group ID
AR	338m S	Unspecified Tank	1921	2231216
AO	339m NE	Railway Sidings	1931	2188046
AR	339m S	Unspecified Tank	1907	2287547
AL	339m NE	Unspecified Wharf	1940	2245687
AR	341m S	Tank	1915	2140313
AO	343m NE	Railway Sidings	1938	2180160
AO	345m NE	Railway Sidings	1921	2188046
AQ	347m NE	Marshes	1888	2241895
AO	348m NE	Railway Sidings	1915	2248121
AT	351m NE	Unspecified Commercial/Industrial	1921	2286088
AU	352m NE	Railway Buildings	1931	2163711
AO	352m NE	Railway Building	1921	2258669
AV	353m S	Unspecified Works	1966	2202377
AO	356m NE	Railway Buildings	1931	2163712
AH	358m N	Motor Works	1983	2251088
AH	358m N	Motor Works	1974	2251088
AH	358m N	Unspecified Works	1969	2265066
AH	358m N	Motor Works	1995	2256104
AO	360m NE	Railway Building	1915	2190432
AO	360m NE	Railway Building	1921	2249931
AV	360m S	Railway Sidings	1966	2245632
AL	363m NE	Railway Building	1915	2150049
AW	363m N	Candle Manufactory	1889	2194654
AO	364m NE	Railway Building	1921	2150047
AU	364m NE	Railway Building	1921	2271791
AW	364m N	Candle Manufactory	1907	2237920
18	364m NE	Cement Works	1895	2265419
AY	364m NE	Refuse Heap	1895	2200602



ID	Location	Land Use	Date	Group ID
AO	364m NE	Railway Building	1931	2241727
AY	365m NE	Refuse Heap	1888	2253697
AY	365m NE	Cement Works	1888	2266121
AW	366m N	Candle Manufactory	1907	2237920
AY	366m NE	Refuse Heap	1907	2215617
AO	367m NE	Railway Building	1915	2184714
AY	368m NE	Refuse Heap	1895	2200602
AW	368m N	Candle Factory	1895	2129013
19	369m N	Dock	1938	2192303
AW	369m N	Candle Manufactory	1898	2193958
AH	371m N	Unspecified Commercial/Industrial	1938	2179278
AO	371m NE	Railway Building	1921	2150048
AU	372m NE	Railway Building	1915	2243676
AW	372m N	Unspecified Ground Workings	1921	2134272
AW	372m N	Candle Manufactory	1895	2232637
AW	376m N	Unspecified Tank	1907	2155473
BC	376m W	Unspecified Tanks	1983	2229012
BC	376m W	Unspecified Tanks	1974	2229012
BC	376m W	Unspecified Tanks	1969	2229012
BC	376m W	Unspecified Tanks	1995	2229012
AW	377m N	Tank	1907	2140302
AW	378m N	Unspecified Commercial/Industrial	1907	2251865
AW	378m N	Unspecified Industrial/Commercial	1888	2164927
21	380m S	Unspecified Works	1973	2291487
AT	381m NE	Unspecified Commercial/Industrial	1940	2222441
BD	383m NW	Unspecified Tanks	1983	2191523
BD	383m NW	Unspecified Tanks	1974	2191523
BD	383m NW	Unspecified Tanks	1969	2191523



ID	Location	Land Use	Date	Group ID
BD	383m NW	Unspecified Tanks	1995	2191523
22	387m NW	Refuse Heap	1949	2158882
AU	392m NE	Unspecified Tank	1938	2171351
AV	392m S	Unspecified Warehouse	1995	2175845
AV	392m S	Unspecified Works	1974	2277714
AU	393m NE	Unspecified Tank	1940	2227350
AU	394m NE	Unspecified Tank	1931	2204276
AT	394m NE	Unspecified Commercial/Industrial	1931	2232814
BG	395m E	Unspecified Ground Workings	1940	2258885
AG	395m N	Railway Sidings	1940	2267910
BG	395m E	Unspecified Ground Workings	1931	2259479
AT	396m NE	Cement Works	1898	2284448
AU	396m NE	Unspecified Tank	1921	2174536
AT	396m NE	Cement Works	1895	2284448
BG	397m E	Unspecified Heap	1938	2225544
BG	397m E	Unspecified Heap	1938	2225544
AT	398m NE	Cement Works	1907	2284448
AM	399m NE	Unspecified Ground Workings	1967	2292283
BH	400m NE	Refuse Heap	1915	2260763
AU	401m NE	Unspecified Tank	1921	2182997
AN	402m NE	Refuse Heap	1931	2278557
AU	403m NE	Tank	1915	2140307
AU	404m NE	Unspecified Tank	1938	2255588
AY	406m NE	Unspecified Tank	1940	2155474
AT	407m NE	Unspecified Commercial/Industrial	1938	2260869
BI	410m E	Unspecified Tanks	1973	2144081
AT	410m NE	Unspecified Depot	1973	2219891
AT	410m NE	Unspecified Depot	1967	2219891



ID	Location	Land Use	Date	Group ID
AV	411m S	Unspecified Warehouse	1985	2278838
BJ	413m NE	Unspecified Heap	1907	2136952
BK	416m N	Unspecified Tanks	1983	2191719
BK	416m N	Unspecified Tanks	1995	2191719
BL	418m N	Unspecified Pit	1949	2283844
BL	423m N	Unspecified Pit	1969	2274199
AT	425m NE	Unspecified Ground Workings	1898	2192884
AV	425m S	Unspecified Works	1967	2291487
AT	426m NE	Unspecified Ground Workings	1888	2293438
BM	429m NE	Unspecified Heap	1967	2212777
BM	430m NE	Unspecified Heap	1940	2252479
AV	430m S	Unspecified Works	1973	2252834
BH	430m NE	Unspecified Ground Workings	1955	2172310
24	430m NW	Unspecified Pit	1895	2284396
26	432m NE	Unspecified Ground Workings	1940	2228749
BH	435m NE	Unspecified Heap	1967	2136953
BO	438m SE	Unspecified Commercial/Industrial	1992	2244089
BO	438m SE	Unspecified Commercial/Industrial	1973	2244089
AW	439m N	Railway Sidings	1907	2242590
AT	443m E	Unspecified Wharf	1931	2172934
BG	445m E	Unspecified Commercial/Industrial	1992	2285500
BG	445m E	Unspecified Works	1973	2277486
BG	445m E	Unspecified Works	1967	2277486
BH	447m NE	Refuse Heap	1940	2239588
AW	447m N	Unspecified Tank	1974	2288592
AW	447m N	Unspecified Tank	1969	2288592
28	454m E	Timber Yard	1992	2268900
BO	459m SE	Refuse Heap	1967	2178312



ID	Location	Land Use	Date	Group ID
30	462m NW	Drainage Works	1921	2196142
BP	463m S	Unspecified Works	1974	2216971
BP	464m S	Unspecified Works	1995	2265743
BP	464m S	Unspecified Works	1985	2265743
BQ	464m S	Unspecified Works	1966	2277677
BQ	468m S	Gas Holder Station	1995	2275878
BQ	468m S	Gas Holder Station	1985	2275878
BQ	468m S	Unspecified Works	1974	2277677
BP	472m S	Unspecified Works	1966	2195254
AW	473m N	Refuse Heap	1888	2271477
BS	473m SE	Unspecified Works	1967	2285005
BS	473m SE	Unspecified Works	1958	2285005
AT	473m E	Unspecified Commercial/Industrial	1921	2232814
AT	474m E	Unspecified Pit	1921	2126006
BT	476m S	Unspecified Tank	1974	2174289
BT	476m S	Gasometer	1995	2249363
BT	476m S	Gasometer	1985	2249363
BT	476m S	Unspecified Tank	1966	2174289
BU	477m SE	Cable Construction Works	1940	2257277
BV	477m SE	Tramway Sidings	1940	2191953
BV	479m SE	Cable Construction Works	1938	2249848
BU	479m SE	Cable Construction Works	1931	2199144
BV	479m SE	Tramway Sidings	1931	2272675
AT	479m E	Unspecified Wharf	1921	2172934
AW	479m N	Unspecified Tank	1983	2155492
AW	479m N	Chimneys	1974	2181320
AW	479m N	Chimneys	1969	2181320
BW	481m NE	Refuse Heap	1915	2175224



ID	Location	Land Use	Date	Group ID
31	482m SE	Cable Construction Works	1938	2262821
AW	483m N	Refuse Heap	1907	2195203
32	484m NE	Industrial Park	1992	2142979
AW	485m N	Chimneys	1974	2206251
AW	485m N	Chimneys	1969	2206251
BW	490m NE	Refuse Heap	1931	2243012
AT	493m E	Unspecified Wharf	1895	2215136
BX	495m SE	Unspecified Works	1992	2249642
BX	495m SE	Unspecified Works	1973	2249642
BY	499m SE	Unspecified Depot	1973	2240381
BY	499m SE	Unspecified Depot	1995	2240381
BY	499m SE	Unspecified Depot	1985	2240381

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

210

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 31](#) >

ID	Location	Land Use	Date	Group ID
C	On site	Unspecified Tank	1996	398529
C	On site	Unspecified Tank	1991	398529
C	On site	Tanks	1991	377210
C	On site	Tanks	1991	377211
E	On site	Unspecified Tank	1991	367663
M	12m NE	Unspecified Tank	1963	392719
M	13m NE	Unspecified Tank	1996	392719
M	13m NE	Unspecified Tank	1991	392719



ID	Location	Land Use	Date	Group ID
L	60m E	Tanks	1975	377250
L	83m E	Tanks	1975	377251
R	90m W	Unspecified Tank	1992	391382
R	91m W	Unspecified Tank	1984	391382
U	119m E	Unspecified Tank	1996	400869
U	119m E	Unspecified Tank	1991	400869
U	120m E	Unspecified Tank	1992	410022
U	120m E	Unspecified Tank	1963	400869
U	120m E	Unspecified Tank	1975	389617
11	163m S	Tanks	1996	377224
Y	178m SE	Tanks	1963	377223
K	196m E	Tanks	1963	398152
K	197m E	Tanks	1997	410016
K	197m E	Tanks	1970	398152
K	197m E	Tanks	1959	398152
K	204m E	Unspecified Tank	1970	392598
K	204m E	Unspecified Tank	1959	392598
K	204m E	Unspecified Tank	1963	392598
Q	213m S	Unspecified Tank	1976	366663
K	217m E	Unspecified Tank	1959	411004
K	217m E	Unspecified Tank	1963	411004
Q	227m S	Unspecified Tank	1982	402697
Q	227m S	Unspecified Tank	1976	402697
AB	235m SE	Unspecified Tank	1996	366667
AE	243m W	Tanks	1992	399449
AE	244m W	Unspecified Tank	1969	408572
AE	244m W	Unspecified Tank	1984	408572
K	251m E	Unspecified Tank	1970	399220



ID	Location	Land Use	Date	Group ID
K	251m E	Unspecified Tank	1959	399220
K	251m E	Unspecified Tank	1984	390710
K	251m E	Unspecified Tank	1963	390710
K	253m E	Unspecified Tank	1997	390710
AE	257m W	Unspecified Tank	1984	400396
AE	257m W	Unspecified Tank	1969	400396
AB	262m SE	Unspecified Tank	1996	366666
AE	265m W	Tanks	1967	399449
AE	265m W	Tanks	1992	388819
AF	272m W	Tanks	1967	387208
AF	276m W	Tanks	1992	387208
K	278m E	Tanks	1970	377232
AI	287m E	Tanks	1970	398990
AI	287m E	Tanks	1984	398990
K	288m E	Tanks	1984	377233
16	288m SW	Unspecified Tank	1989	366662
K	294m E	Tanks	1970	377234
K	319m SE	Unspecified Tank	1996	366665
K	320m SE	Tanks	1984	405287
K	321m SE	Tanks	1997	409970
K	321m SE	Tanks	1970	392572
K	321m SE	Tanks	1984	377230
K	324m SE	Tanks	1984	377231
17	328m NE	Unspecified Tank	1939	367692
K	332m SE	Tanks	1984	377229
K	332m SE	Tanks	1984	377235
K	336m SE	Tanks	1997	408033
K	336m SE	Tanks	1984	408033



ID	Location	Land Use	Date	Group ID
K	339m SE	Tanks	1984	393085
K	339m SE	Tanks	1997	393085
K	340m SE	Tanks	1984	377236
AS	347m SW	Tanks	1976	376874
AS	347m SW	Unspecified Tank	1982	366661
K	348m SE	Unspecified Tank	1970	367661
AR	350m S	Unspecified Tank	1920	366660
AK	354m SE	Unspecified Tank	1990	384509
AK	355m SE	Unspecified Tank	1993	384509
AK	355m SE	Unspecified Tank	1999	384509
K	360m SE	Tanks	1984	377226
K	361m SE	Tanks	1970	401551
K	361m SE	Tanks	1984	403387
K	361m SE	Tanks	1970	386642
K	363m SE	Tanks	1997	385641
AX	363m W	Unspecified Tank	1992	367660
K	366m SE	Tanks	1997	400141
AZ	370m SE	Tanks	1984	383754
AZ	370m SE	Tanks	1997	383754
AW	371m N	Unspecified Tank	1939	367687
K	373m SE	Tanks	1984	400141
20	373m W	Tanks	1967	409383
K	373m SE	Tanks	1984	385438
K	373m SE	Tanks	1970	385438
BA	376m W	Tanks	1967	405530
BB	376m W	Tanks	1967	403597
AX	377m W	Tanks	1967	403064
AX	378m W	Tanks	1967	409383



ID	Location	Land Use	Date	Group ID
K	378m SE	Tanks	1984	377225
AW	379m N	Unspecified Tank	1897	396716
AW	379m N	Unspecified Tank	1909	396716
AW	381m N	Unspecified Tank	1962	388223
AW	381m N	Unspecified Tank	1962	396603
AW	381m N	Unspecified Tank	1962	396603
K	381m SE	Tanks	1984	408868
BD	382m NW	Tanks	1992	385685
BD	382m NW	Tanks	1967	385685
K	382m SE	Unspecified Tank	1970	395963
K	382m SE	Unspecified Tank	1984	405388
K	383m SE	Unspecified Tank	1984	395963
K	383m SE	Tanks	1997	394198
AV	383m S	Tanks	1985	382398
AV	383m S	Tanks	1982	382398
AV	384m S	Tanks	1975	399698
K	384m SE	Unspecified Tank	1997	405388
K	385m SE	Unspecified Tank	1984	367662
K	385m SE	Tanks	1997	383032
BF	386m E	Unspecified Tank	1984	384477
AW	386m N	Unspecified Tank	1897	367686
K	387m SE	Tanks	1984	380695
BF	387m E	Unspecified Tank	1997	398800
K	390m SE	Tanks	1984	399541
K	391m SE	Tanks	1984	402822
AW	393m N	Unspecified Tank	1939	367685
AU	393m NE	Unspecified Tank	1920	408190
AU	393m NE	Unspecified Tank	1939	408190



ID	Location	Land Use	Date	Group ID
BA	393m W	Tanks	1992	377222
K	396m SE	Tanks	1997	377227
K	397m SE	Tanks	1984	403934
AV	399m S	Unspecified Tank	1985	390814
AV	399m S	Unspecified Tank	1982	390814
AV	399m S	Unspecified Tank	1975	390814
AV	400m S	Unspecified Tank	1975	366664
AW	402m N	Unspecified Tank	1962	394879
AW	403m N	Unspecified Tank	1962	381819
AW	403m N	Unspecified Tank	1962	381819
AY	407m NE	Unspecified Tank	1939	367688
BJ	412m NE	Tanks	1897	377238
AY	412m NE	Tanks	1990	377240
K	412m SE	Tanks	1984	395463
K	412m SE	Tanks	1970	395463
K	413m SE	Tanks	1997	395463
K	414m SE	Tanks	1984	380899
K	414m SE	Tanks	1970	396110
BK	416m N	Tanks	1996	405691
K	417m SE	Tanks	1997	395736
BK	417m N	Tanks	1984	410708
BK	417m N	Tanks	1990	410708
K	417m SE	Tanks	1984	409958
K	417m SE	Tanks	1984	377228
K	417m SE	Tanks	1997	383546
K	418m SE	Tanks	1984	383952
K	419m SE	Tanks	1997	383952
K	420m SE	Tanks	1997	406451



ID	Location	Land Use	Date	Group ID
K	421m SE	Unspecified Tank	1984	367720
AY	421m NE	Tanks	1990	377237
K	422m SE	Tanks	1984	388243
K	425m SE	Tanks	1984	389570
K	425m SE	Tanks	1970	389570
BN	430m W	Tanks	1992	377212
25	430m SE	Unspecified Tank	1984	367721
K	433m SE	Unspecified Tank	1984	393402
K	434m SE	Unspecified Tank	1970	407585
K	435m SE	Unspecified Tank	1997	393402
BJ	436m NE	Unspecified Tank	1897	367713
BA	437m W	Tanks	1992	377221
AW	437m N	Unspecified Tank	1939	386749
K	437m SE	Tanks	1984	410403
BJ	437m NE	Unspecified Tank	1897	367714
K	438m SE	Tanks	1997	394891
K	441m SE	Tanks	1984	387744
K	441m SE	Tanks	1997	411314
BB	441m W	Tanks	1967	402957
K	442m SE	Tanks	1970	387744
K	445m SE	Tanks	1984	411196
K	446m SE	Tanks	1984	381708
K	446m SE	Tanks	1970	411196
K	446m SE	Tanks	1970	396277
AV	446m S	Unspecified Tank	1985	386827
AV	446m S	Unspecified Tank	1990	386827
AW	447m N	Unspecified Tank	1962	382427
AW	447m N	Unspecified Tank	1972	382427



ID	Location	Land Use	Date	Group ID
AW	447m N	Unspecified Tank	1962	381965
AW	447m N	Unspecified Tank	1962	381965
AV	449m S	Unspecified Tank	1985	387079
AV	449m S	Unspecified Tank	1982	387079
AV	450m S	Unspecified Tank	1975	387079
K	456m SE	Tanks	1984	407572
K	456m SE	Tanks	1970	405093
K	457m SE	Tanks	1997	388811
K	457m SE	Tanks	1970	384708
K	459m SE	Tanks	1984	389837
K	459m SE	Tanks	1997	389837
29	461m W	Tanks	1967	403438
K	461m SE	Tanks	1970	407572
K	462m SE	Tanks	1970	400935
BQ	468m S	Gasholder Station	1976	407346
BQ	468m S	Gasholder Station	1992	407346
BR	470m SW	Unspecified Tank	1976	407782
BR	470m SW	Unspecified Tank	1992	407782
BN	474m W	Unspecified Tank	1992	367664
BT	479m S	Unspecified Tank	1964	384030
BT	479m S	Unspecified Tank	1957	384030
BT	479m S	Gasholder	1976	398624
BT	479m S	Gasholder	1992	398624
BT	479m S	Unspecified Tank	1957	397830
AV	480m S	Tanks	1985	389825
AV	480m S	Tanks	1990	389825
AV	480m S	Tanks	1971	388915
33	492m S	Tanks	1996	376866



ID	Location	Land Use	Date	Group ID
AV	493m S	Tanks	1971	404160
AV	494m S	Tanks	1985	404160
AV	494m S	Tanks	1990	404160
BI	495m E	Tanks	1992	402149
BI	495m E	Tanks	1970	381968
BN	496m W	Tanks	1992	377213

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

25

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 31](#) >

ID	Location	Land Use	Date	Group ID
E	On site	Electricity Substation	1991	247044
H	On site	Electricity Substation	1996	247042
L	27m E	Electricity Transformer	1975	250820
X	168m E	Electricity Substation	1970	275721
X	168m E	Electricity Substation	1984	275721
X	168m E	Electricity Substation	1997	275721
Q	208m S	Electricity Substation	1982	272687
Q	208m S	Electricity Substation	1976	272687
K	363m SE	Electricity Substation	1984	247043
K	366m SE	Electricity Substation	1997	247038
BE	383m SE	Electricity Substation	1984	292518
BE	383m SE	Electricity Substation	1970	292518
BE	385m SE	Electricity Substation	1997	292518
K	387m SE	Electricity Substation	1997	247039



ID	Location	Land Use	Date	Group ID
23	388m SW	Electricity Substation	1989	247041
27	451m NE	Electricity Substation	1992	247030
BL	464m N	Electricity Substation	1996	247025
BQ	468m S	Gasholder Station	1976	277540
BL	468m N	Electricity Substation	1984	257292
BL	468m N	Electricity Substation	1990	257292
BQ	468m S	Gasholder Station	1992	277540
BT	479m S	Gasholder	1976	269216
BT	479m S	Gasholder	1992	269216
BR	496m SW	Electricity Substation	1976	281379
BR	497m SW	Electricity Substation	1992	281379

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

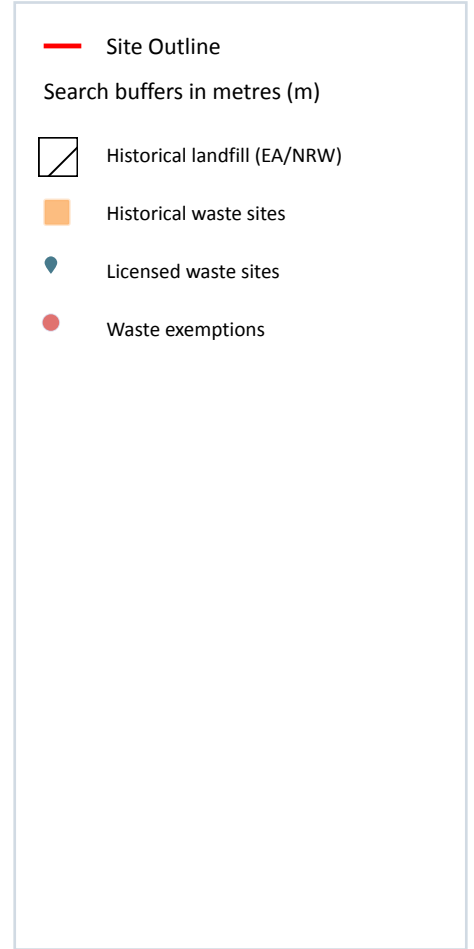
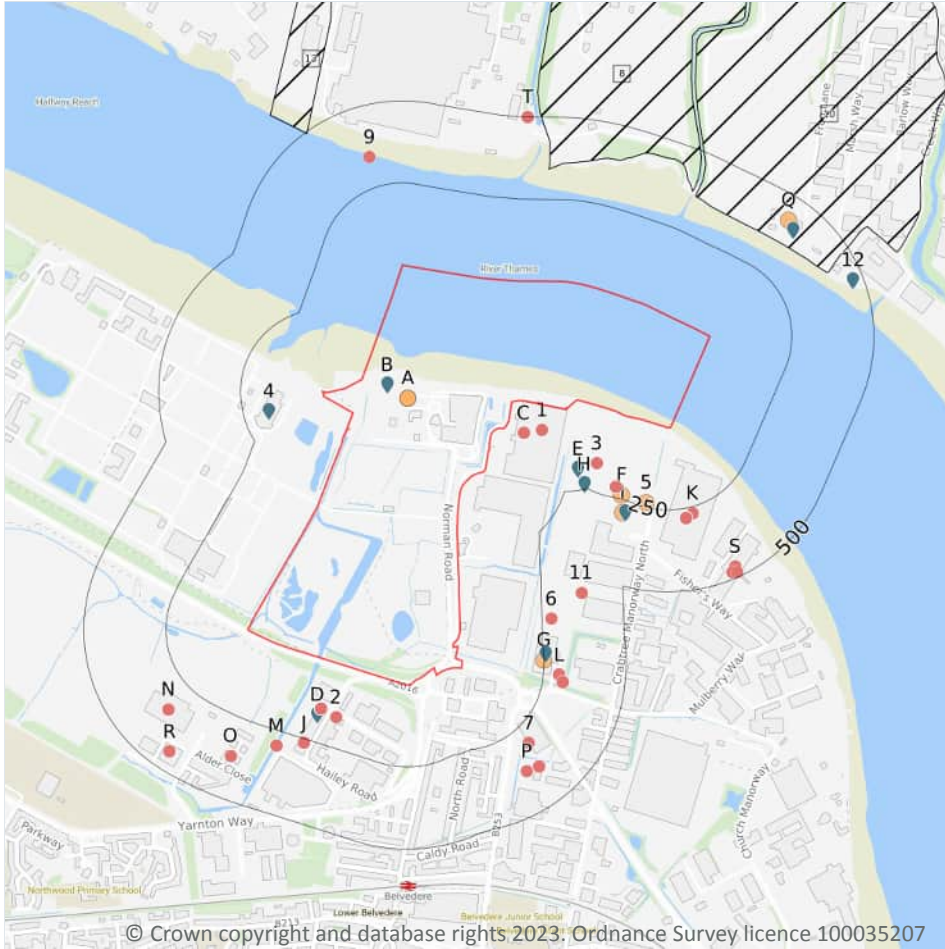
0

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

0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

3

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 53 >](#)

ID	Location	Details		
8	342m N	Site Address: Ex-City of London Site, Rainham, Gillingham, Kent Licence Holder Address: -	Waste Licence: Yes Site Reference: DL110, 8HV015 Waste Type: Inert, Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 05/11/1982 Licence Surrender: 04/06/1991	Operator: - Licence Holder: Ford Motor Company Limited First Recorded - Last Recorded: 31/12/1988
10	352m NE	Site Address: Manor Way, Rainham, Havering, London Licence Holder Address: -	Waste Licence: - Site Reference: 8HV011 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -
13	495m NW	Site Address: Dagenham Dock, Dagenham, Essex Licence Holder Address: -	Waste Licence: Yes Site Reference: DL329, 8BD008 Waste Type: Industrial, Special Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 09/10/1990 Licence Surrender: 11/07/1991	Operator: - Licence Holder: ARC Aggregates First Recorded 31/12/1939 Last Recorded: 31/10/1990

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



3.5 Historical waste sites

Records within 500m

7

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 53](#) >

ID	Location	Address	Further Details	Date
A	On site	Site Address: Riverside, Norman Road, BELVEDERE, Bexley, DA17 6A	<p>Type of Site: Waste Plant</p> <p>Planning application reference: 99/02388/CIRC</p> <p>Description: Scheme comprises the construction of a 72 Mega Watt municipal waste incineration facility with energy recovery. Construction involves large concrete lined sunken reception pits, combuster with grate, electrical turbines, ash removal equipment, gas cleaning facility and an 84 metre high stack. The structure will cover 13,000 sq m, with a curved roof rising to a height of 55 m. The plant is to take 585,000 tonnes of waste, 85,000 tonnes locally by road and 500,000 tonnes by river. A new jetty is to be built and this will cost approximately 21 million. An application (ref: 99/02388/CIRC) for detailed planning permission was granted by Bexley L.B. The Masterlead can be viewed on project id: 99192687. It is intended to process an average of 585,000 tonnes of residual waste per year and by that generating approximately 72 MW of electricity. This will be achieved using three process lines with proven grate technology. Planning consent was granted on 15th June 2006 and the plant is scheduled to start operation in Autumn 2012. The plant is scheduled to start operation in Autumn 2012.</p> <p>Data source: Historic Planning Application</p> <p>Data Type: Point</p>	01/07/2008

ID	Location	Address	Further Details	Date
A	On site	Site Address: Norman Road, BELVEDERE, Bexley, DA17 6JW	<p>Type of Site: Temporary Recycling Centre (Conversion)</p> <p>Planning application reference: 01/01681</p> <p>Description: Scheme comprises conversion of site as a temporary recycling centre for the importing, transferring, deposting, crushing, processing and sorting of concrete, soil, rubble and similar materials. Including materials from public utility excavations and demo lition. Together with siting of a concrete crusher. An application (ref: 01/01681) for Detailed Planning permission was submitted to Bexley L.B. on 14th June 2001.</p> <p>Data source: Historic Planning Application</p> <p>Data Type: Point</p>	-
5	211m E	Site Address: Plot 3, Burts Wharf, Crabtree Manorway North, Belvedere, Bexley, DA17 6LJ	<p>Type of Site: Waste Transfer Station</p> <p>Planning application reference: 14/01780/FULM</p> <p>Description: Scheme comprises under section 73 of the town and country planning act 1990 regarding use of land for recycling of construction and demolition waste, including road construction waste, comprising sorting, separation, crushing, screening, blending and storage of material for recovery as a soil, soil substitute or aggregate; stationing of ancillary plant and machinery and portable office; above ground weighbridge; ancillary parking and new access gates to allow a new site layout in respect of volume and height of piles of input and output material, and removal of washing facility used for vehicles the site. The associated works include sewer systems, landscaping, infrastructure, enabling works, cable laying and access roads.</p> <p>Data source: Historic Planning Application</p> <p>Data Type: Point</p>	-
F	213m E	Site Address: Plot 3 And Plot 4; Burts Wharf, Crabtree Manorway North, Belvedere, Bexley, DA17 6LJ	<p>Type of Site: Recycling Facility</p> <p>Planning application reference: 12/01840/FUL</p> <p>Description: Scheme comprises use of land for recycling of construction and demolition waste, including road construction waste, comprising sorting, separation, crushing, screening, blending and storage of material for recovery as a soil, soil substitute or aggregate ; stationing of ancillary plant and machinery and portable office; above ground weighbridge; ancillary parking and new access gates.</p> <p>Data source: Historic Planning Application</p> <p>Data Type: Point</p>	16/10/2013



ID	Location	Address	Further Details	Date
G	223m S	Site Address: Jablite, Anderson Way, Belvedere, Bexley, DA17 6BG, LONDON	Type of Site: Waste Management Facility (Conversion) Planning application reference: 22/02568/FUL Description: Scheme comprises change of use from existing general industrial (B2 and B8) use to a waste management facility, with two weighbridges (sui generis). Data source: Historic Planning Application Data Type: Point	31/10/2022
I	263m E	Site Address: Former Nufarm Uk Ltd, Crabtree Manorway North, BELVEDERE, Bexley, DA17 6	Type of Site: Material Recycling Facility Planning application reference: 11/01715/FULMEA Description: Scheme comprises redevelopment of site and construction of a material recycling facility and energy generation facility, incorporating a gatehouse, double weighbridge, ancillary external plant and equipment, a flue stack, air cooling units and silos, associated access, parking, landscaping. Construction - metal cladding walls; metal cladding, photovoltaic panels roof; roller shutter doors; air conditioned, comb. heat & pwr sys. heating; black top surfacing, block paving, concrete paving, drain covers, fencing, planting, pumps, Tarmac surfacing, turbine, turfing/grass site works; bathroom fittings; rainwater harvesting architectural hardware. An application (ref: 11/01715/FULMEA) for detailed planning permission was submitted to Bexley L.B. The start date and contract period are for guideline only. Detailed plans submitted. Data source: Historic Planning Application Data Type: Point	01/08/2018
Q	402m NE	Site Address: Land at, Frong Lane, Rainham, Havering, RM13	Type of Site: Waste Transfer Station (New/Conversion) Planning application reference: P1364.17 Description: Scheme comprises construction of a waste transfer station building for the sorting of non-hazardous and inert dry-waste and the change of use of part of a Haulage yard to a skip hire yard and waste transfer station with the construction of a picking station and waste storage bays with associated hardstandings (as) and amended parking and storage layout on the land at Frog Lane, Rainham, including SUDS. The associated works include sewer systems, landscaping, infrastructure, enabling, cable laying and access roads. Data source: Historic Planning Application Data Type: Point	23/02/2018



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

3.6 Licensed waste sites

Records within 500m

15

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on [page 53 >](#)

ID	Location	Details		
B	On site	Site Name: Riverside Resource Recovery Facility Site Address: Riverside Resource Recovery Facility, Norman Road, Belvedere, Bexley, Kent, DA17 6JY Correspondence Address: -	Type of Site: HCI Waste TS (no building) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: RIV038 EPR reference: EA/EPR/FB3038AB/A001 Operator: Riverside Resource Recovery Ltd Waste Management licence No: 103887 Annual Tonnage: 4999	Issue Date: 02/03/2012 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
B	On site	Site Name: Riverside Resource Recovery Facility Site Address: Riverside Resource Recovery Limited, Riverside Resource Recovery Facility, Norman Road, Belvedere, Bexley, Kent, DA17 6JY Correspondence Address: -	Type of Site: HCI Waste TS (no building) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 653876 EPR reference: EA/EPR/FB3038AB Operator: Riverside Resource Recovery Limited Waste Management licence No: 103887 Annual Tonnage: 4999	Issue Date: 02/03/2012 Effective Date: 02/03/2012 Modified: 02/03/2012 Surrendered Date: - Expiry Date: - Cancelled Date: 02/03/2012 Status: Issued
D	169m SW	Site Name: Meridian Technical Services Site Address: Meridian Technical Services Limited, 14, Hailey Road, Erith, Kent, DA18 4AP Correspondence Address: -	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 639741 EPR reference: EA/EPR/VP3490EQ Operator: Meridian Technical Services Limited Waste Management licence No: 83425 Annual Tonnage: 5000	Issue Date: 13/01/2003 Effective Date: 13/01/2003 Modified: 13/01/2003 Surrendered Date: - Expiry Date: - Cancelled Date: 13/01/2003 Status: Issued



ID	Location	Details		
4	173m W	Site Name: Crossness STW Combined Heat and Power Plant - EPR/PB3239AW Site Address: Thames Water Utilities Limited, Crossness Sewage Treatment Works, Belvedere Road, Thamesmead, London, SE2 9AQ Correspondence Address: -	Type of Site: Landfill Gas Engine (3 mW) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 627509 EPR reference: EA/EPR/PB3239AW Operator: Thames Water Utilities Limited Waste Management licence No: 400178 Annual Tonnage: 0	Issue Date: 23/02/2021 Effective Date: 23/02/2021 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: 23/02/2021 Status: Issued
E	186m E	Site Name: Burts Wharf Recycling Depot Site Address: Plot 3 Burts Wharf, Crabtree Manorway North, Belvedere, Kent, DA17 6LJ Correspondence Address: -	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HIG076 EPR reference: EA/EPR/MB3133AP/A001 Operator: Highway United Limited Waste Management licence No: 104859 Annual Tonnage: 74999	Issue Date: 18/10/2013 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
E	186m E	Site Name: Burts Wharf Recycling Depot Site Address: Highway United Limited, Plot 3 Burts Wharf, Crabtree Manorway North, Belvedere, Kent, DA17 6LJ Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 650733 EPR reference: EA/EPR/MB3133AP Operator: Highway United Limited Waste Management licence No: 104859 Annual Tonnage: 74999	Issue Date: 18/10/2013 Effective Date: 18/10/2013 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: 18/10/2013 Status: Expired
H	236m E	Site Name: P M Highway Ltd Site Address: Plot 4 Burts Wharf, Manorway North, Belvedere, Kent, DA17 6LJ Correspondence Address: -	Type of Site: Physical Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PMH003 EPR reference: EA/EPR/GB3738RT/A001 Operator: P M Highway Ltd Waste Management licence No: 104182 Annual Tonnage: 74999	Issue Date: 30/08/2012 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired



ID	Location	Details		
H	236m E	Site Name: P M Highway Ltd Site Address: P M Highway Limited, Plot 4 Burts Wharf, Manorway North, Belvedere, Kent, DA17 6LJ Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 644391 EPR reference: EA/EPR/GB3738RT Operator: P M Highway Limited Waste Management licence No: 104182 Annual Tonnage: 74999	Issue Date: 30/08/2012 Effective Date: 30/08/2012 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: 30/08/2012 Status: Expired
G	255m SE	Site Name: Westminster Waste Site Address: Westminster Waste Limited, Westminster Waste, Anderson Way, Belvedere, DA17 6BG Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: - EPR reference: EA/EPR/WE9075AB/A001 Operator: Westminster Waste Limited Waste Management licence No: 120732 Annual Tonnage: -	Issue Date: 10/11/2022 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
I	288m E	Site Name: Burts Wharf W T S Site Address: Crabtree Manorway North, Belvedere, Kent, DA17 6LJ Correspondence Address: -	Type of Site: Treatment of waste to produce soil 75,000 tpy Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: JDT001 EPR reference: EA/EPR/ZP3790VS/A001 Operator: J D T (South East) Ltd Waste Management licence No: 102921 Annual Tonnage: 74999	Issue Date: 30/06/2011 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
I	288m E	Site Name: Burts Wharf W T S Site Address: J D T (South East) Limited, Crabtree Manorway North, Crabtree Manorway North, Belvedere, Kent, DA17 6LJ Correspondence Address: -	Type of Site: Treatment of waste to produce soil 75,000 tpy Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 637883 EPR reference: EA/EPR/ZP3790VS Operator: J D T (South East) Limited Waste Management licence No: 102921 Annual Tonnage: 74999	Issue Date: 30/06/2011 Effective Date: 30/06/2011 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: 30/06/2011 Status: Expired



ID	Location	Details		
Q	409m NE	Site Name: Andrews Waste Management Site Address: Andrews Waste Management, Frog Lane, Off Marsh Way, Rainham, Essex, RM13 8UG Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AND003 EPR reference: EA/EPR/GB3304GL/V002 Operator: Andrews Waste Management Limited Waste Management licence No: 404887 Annual Tonnage: 74999	Issue Date: 19/10/2018 Effective Date: - Modified: 12/08/2019 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
Q	409m NE	Site Name: Andrews Waste Management Site Address: Andrews Waste Management, Frog Lane, Off Marsh Way, Rainham, RM13 8UG Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: AND003 EPR reference: EA/EPR/GB3304GL/V002 Operator: Andrews Waste Management Limited Waste Management licence No: 404887 Annual Tonnage: 74999	Issue Date: 19/10/2018 Effective Date: - Modified: 12/08/2019 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
Q	409m NE	Site Name: Andrews Waste Management Site Address: Andrews Waste Management Limited, Andrews Waste Management Limited, Frog Lane, Off Marsh Way, Rainham, Essex, RM13 8UG Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 637983 EPR reference: EA/EPR/GB3304GL Operator: Andrews Waste Management Limited Waste Management licence No: 404887 Annual Tonnage: 74999	Issue Date: 19/10/2018 Effective Date: 19/10/2018 Modified: 19/10/2018 Surrendered Date: - Expiry Date: - Cancelled Date: 19/10/2018 Status: Issued



ID	Location	Details		
12	468m NE	Site Name: Frog Island Waste Management Facility EPR/ZP3533BS Site Address: Renewi Uk Services Limited, Frog Island Waste Management Facility, Creek Way, Rainham, Greater London, RM13 8EN Correspondence Address: -	Type of Site: Physical Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 640063 EPR reference: EA/EPR/ZP3533BS Operator: Renewi Uk Services Limited Waste Management licence No: 402250 Annual Tonnage: 387000	Issue Date: 02/11/2021 Effective Date: 02/11/2021 Modified: 02/11/2021 Surrendered Date: - Expiry Date: - Cancelled Date: 02/11/2021 Status: Issued

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

3.7 Waste exemptions

Records within 500m	69
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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 53 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
C	56m E	COTTONS CENTRE, HAYS LANE, LONDON, SE1 2TT	WEX095529	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	56m E	NORMAN ROAD, BELVEDERE, DA17 6JY	WEX238256	Storing waste exemption	Not on a farm	Storage of waste in a secure place
1	78m E	Iron Mountain (uk) Ltd Norman Road Belvedere Kent DA17 6JY	EPR/ME5343S G/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
D	150m SW	CTR (Collections) Ltd, Unit 6 - 6A, Hailey Road, Erith, DA18 4AP	WEX270600	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	150m SW	ARB Recycling Limited, Unit 6 & 6A Hailey Road, Erith, DA18 4AP	WEX244227	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	150m SW	CTR (Grading) Ltd, Unit 6 - 6A, Hailey Road, Erith, DA18 4AP	WEX270597	Treating waste exemption	Not on a farm	Recovery of textiles



ID	Location	Site	Reference	Category	Sub-Category	Description
D	150m SW	CTR (Grading) Ltd, Unit 6 - 6A, Hailey Road, Erith, DA18 4AP	WEX270597	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	150m SW	CTR (Grading) Ltd, Unit 6 - 6A, Hailey Road, Erith, DA18 4AP	WEX270597	Treating waste exemption	Not on a farm	Sorting mixed waste
D	150m SW	CTR (Grading) Ltd, Unit 6 - 6A, Hailey Road, Erith, DA18 4AP	WEX270597	Storing waste exemption	Not on a farm	Storage of waste in secure containers
D	150m SW	CTR (Collections) Ltd, Unit 6 - 6A, Hailey Road, Erith, DA18 4AP	WEX270600	Treating waste exemption	Not on a farm	Recovery of textiles
D	150m SW	CTR (Collections) Ltd, Unit 6 - 6A, Hailey Road, Erith, DA18 4AP	WEX270600	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	150m SW	CTR (Collections) Ltd, Unit 6 - 6A, Hailey Road, Erith, DA18 4AP	WEX270600	Treating waste exemption	Not on a farm	Sorting mixed waste
D	150m SW	CTR (Collections) Ltd, Unit 6 - 6A, Hailey Road, Erith, DA18 4AP	WEX270600	Storing waste exemption	Not on a farm	Storage of waste in secure containers
D	150m SW	CTR (Grading) Ltd, Unit 6 - 6A, Hailey Road, Erith, DA18 4AP	WEX270597	Storing waste exemption	Not on a farm	Storage of waste in a secure place
2	160m SW	intersped logistics uk limited, 66 hailey road, erith, DA18 4AA	WEX251133	Storing waste exemption	Not on a farm	Storage of waste in a secure place
3	170m E	Alchemy Park, Belvedere, Bexley, DA17 6LJ	WEX258456	Using waste exemption	Not on a farm	Use of waste in construction
F	218m E	Galliford Try, Crabtree Manorway North, Belvedere, DA17 6LJ	WEX129019	Storing waste exemption	Not on a farm	Storage of waste in a secure place
F	218m E	Galliford Try, Crabtree Manorway North, Belvedere, DA17 6LJ	WEX129019	Using waste exemption	Not on a farm	Use of waste in construction
F	218m E	Plots 1-7, Crabtree Manor Way North, Belvedere, DA176LJ	WEX103334	Storing waste exemption	Not on a farm	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
F	218m E	Plots 1-7, Crabtree Manor Way North, Belvedere, DA176LJ	WEX103334	Treating waste exemption	Not on a farm	Screening and blending of waste
J	265m SW	26, HAILEY ROAD, ERITH, DA18 4AP	WEX116925	Storing waste exemption	Not on a farm	Storage of waste in a secure place
J	265m SW	26, HAILEY ROAD, ERITH, DA18 4AP	WEX260186	Storing waste exemption	Not on a farm	Storage of waste in a secure place
K	270m E	Lidl UK GmbH Fishers Way Kent DA17 6BS	EPR/KE5747M E/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
K	270m E	Lidl UK GmbH Fishers Way Kent DA17 6BS	EPR/KE5747M E/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste food
K	270m E	Lidl UK GmbH Fishers Way Kent DA17 6BS	EPR/KE5747M E/A001	Treating waste exemption	Non-Agricultural Waste Only	Crushing waste fluorescent tubes
K	270m E	Lidl UK GmbH Fishers Way Kent DA17 6BS	EPR/KE5747M E/A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
6	278m SE	-	WEX257471	Using waste exemption	Not on a farm	Use of waste in construction
K	281m E	FISHERS WAY, BELVEDERE, DA17 6BS	WEX144196	Treating waste exemption	Not on a farm	Sorting mixed waste
K	281m E	FISHERS WAY, BELVEDERE, DA17 6BS	WEX103165	Storing waste exemption	Not on a farm	Storage of waste in a secure place
K	281m E	FISHERS WAY, BELVEDERE, DA17 6BS	WEX103165	Treating waste exemption	Not on a farm	Treatment of waste food
K	281m E	FISHERS WAY, BELVEDERE, DA17 6BS	WEX103165	Treating waste exemption	Not on a farm	Crushing waste fluorescent tubes
K	281m E	FISHERS WAY, BELVEDERE, DA17 6BS	WEX103165	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
K	281m E	FISHERS WAY, BELVEDERE, DA17 6BS	WEX245618	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
K	281m E	FISHERS WAY, BELVEDERE, DA17 6BS	WEX245618	Treating waste exemption	Not on a farm	Treatment of waste food



ID	Location	Site	Reference	Category	Sub-Category	Description
K	281m E	FISHERS WAY, BELVEDERE, DA17 6BS	WEX245618	Treating waste exemption	Not on a farm	Crushing waste fluorescent tubes
K	281m E	FISHERS WAY, BELVEDERE, DA17 6BS	WEX245618	Storing waste exemption	Not on a farm	Storage of waste in a secure place
K	281m E	FISHERS WAY, BELVEDERE, DA17 6BS	WEX282649	Treating waste exemption	Not on a farm	Sorting mixed waste
L	297m SE	Infinity House Anderson Way BELVEDERE Kent DA17 6BG	EPR/RF0908CF /A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
L	297m SE	Infinity House Anderson Way BELVEDERE Kent DA17 6BG	EPR/RF0908CF /A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste to manufacture finished goods
M	298m SW	-	WEX148248	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
M	298m SW	-	WEX148248	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
7	308m S	Just off roundabout on Anderson way with large horse statue in centre	WEX264193	Using waste exemption	Not on a farm	Use of waste in construction
L	310m SE	INFINITY HOUSE, ANDERSON WAY, BELVEDERE, DA17 6BG	WEX152982	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
L	310m SE	INFINITY HOUSE, ANDERSON WAY, BELVEDERE, DA17 6BG	WEX152982	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
9	343m N	DAGENHAM, RM9 6SA	WEX080220	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
N	344m SW	WALDRIST WAY, ERITH, DA18 4AG	WEX157908	Treating waste exemption	Not on a Farm	Preparatory treatments (baling, sorting, shredding etc)
N	344m SW	WALDRIST WAY, ERITH, DA18 4AG	WEX157908	Storing waste exemption	Not on a Farm	Storage of waste in a secure place
N	344m SW	Londist Distribution Centre Waldrist Way Erith Bexley DA18 4AG	EPR/NF0503W T/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
N	344m SW	Londist Distribution Centre Waldrist Way Erith Bexley DA18 4AG	EPR/NF0503W T/A001	Treating waste exemption	Non- Agricultura l Waste Only	Preparatory treatments (baling, sorting, shredding etc)
N	344m SW	WALDRIST WAY, ERITH, DA18 4AG	WEX359523	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
N	344m SW	WALDRIST WAY, ERITH, DA18 4AG	WEX359523	Storing waste exemption	Not on a farm	Storage of waste in a secure place
O	371m SW	2, ALDER CLOSE, ERITH, DA18 4AJ	WEX230409	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
O	371m SW	2, ALDER CLOSE, ERITH, DA18 4AJ	WEX356670	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
11	371m SE	Southfield Alchemy Park Crabtree Manorway North BELVEDERE Kent DA17 6LJ	EPR/EF0705LY /A001	Using waste exemption	Non- Agricultura l Waste Only	Use of waste in construction
P	373m S	Pioneer Works Belvedere Kent DA17 6AH	EPR/EE5451FT /A001	Using waste exemption	Non- Agricultura l Waste Only	Burning of waste as a fuel in a small appliance
P	382m S	BELVEDERE BUSINESS PARK, UNIT 8, CRABTREE MANORWAY SOUTH, BELVEDERE, DA17 6AH	WEX232204	Storing waste exemption	Not on a farm	Storage of waste in secure containers
P	382m S	BELVEDERE BUSINESS PARK, UNIT 8, CRABTREE MANORWAY SOUTH, BELVEDERE, DA17 6AH	WEX088374	Storing waste exemption	Not on a farm	Storage of waste in secure containers
P	382m S	BELVEDERE BUSINESS PARK, UNIT 8, CRABTREE MANORWAY SOUTH, BELVEDERE, DA17 6AH	WEX358038	Storing waste exemption	Not on a farm	Storage of waste in secure containers
R	443m SW	-	WEX310348	Storing waste exemption	Not on a farm	Storage of waste in a secure place
R	443m SW	-	WEX310348	Storing waste exemption	Not on a farm	Storage of waste in secure containers
S	467m E	-	WEX295602	Storing waste exemption	Not on a Farm	Storage of waste in a secure place

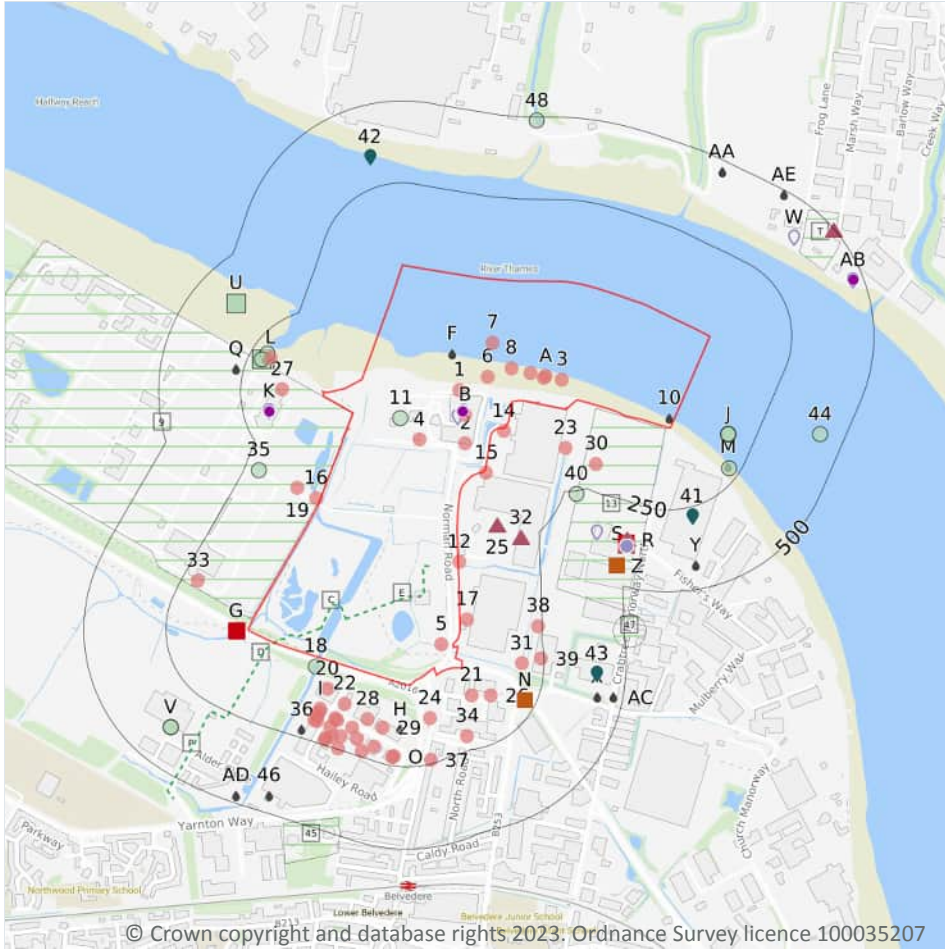


ID	Location	Site	Reference	Category	Sub-Category	Description
S	482m SE	Unit 20, Rear Area, Fisher's way, Belvedere, Kent, DA17 6BS	WEX202091	Treating waste exemption	Not on a farm	Mechanical treatment of end-of-life tyres
S	486m SE	Mulberry Asphalt, Fishers Way, Belvedere, DA17 6BS	WEX124653	Using waste exemption	Not on a farm	Use of waste in construction
T	499m N	Jackson Frameworks Fords Pit Kent Avenue Essex RM9 6EL	EPR/BF0308M W/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste aerosol cans
T	499m N	Jackson Frameworks Fords Pit Kent Avenue Essex RM9 6EL	EPR/BF0308M W/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
T	499m N	Jackson Frameworks Fords Pit Kent Avenue Essex RM9 6EL	EPR/BF0308M W/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
T	499m N	Jackson Frameworks Fords Pit Kent Avenue Essex RM9 6EL	EPR/BF0308M W/A001	Using waste exemption	Non-Agricultural Waste Only	Use of mulch
T	499m N	Jackson Frameworks Fords Pit Kent Avenue Essex RM9 6EL	EPR/BF0308M W/A001	Using waste exemption	Non-Agricultural Waste Only	Spreading of plant matter to confer benefit
T	499m N	Jackson Frameworks Fords Pit Kent Avenue Essex RM9 6EL	EPR/BF0308M W/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste for a specified purpose

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



4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m

54

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 68](#) >

ID	Location	Company	Address	Activity	Category
1	On site	Tank	Greater London, DA17	Tanks (Generic)	Industrial Features
2	On site	Chimney	Greater London, DA17	Chimneys	Industrial Features
3	On site	Cranes	Greater London, DA17	Travelling Cranes and Gantries	Industrial Features

ID	Location	Company	Address	Activity	Category
4	On site	Electricity Sub Station	Greater London, DA17	Electrical Features	Infrastructure and Facilities
5	On site	Electricity Sub Station	Greater London, DA17	Electrical Features	Infrastructure and Facilities
6	On site	Wharf	Greater London, DA17	Moorings and Unloading Facilities	Water
7	On site	Mooring Posts	Greater London, DA17	Moorings and Unloading Facilities	Water
8	On site	Dolphin	Greater London, DA17	Moorings and Unloading Facilities	Water
A	On site	Cranes	Greater London, DA17	Travelling Cranes and Gantries	Industrial Features
A	On site	Cranes	Greater London, DA17	Travelling Cranes and Gantries	Industrial Features
A	On site	Jetty	Greater London, DA17	Moorings and Unloading Facilities	Water
B	On site	Riverside Resource Recovery Ltd	-, Norman Road, Belvedere, Greater London, DA17 6JY	Energy Production	Industrial Features
12	3m S	Electricity Sub Station	Greater London, DA17	Electrical Features	Infrastructure and Facilities
14	8m E	Electricity Sub Station	Greater London, DA17	Electrical Features	Infrastructure and Facilities
15	9m SE	Electricity Sub Station	Greater London, DA17	Electrical Features	Infrastructure and Facilities
16	14m W	Wind Turbine	Greater London, DA17	Energy Production	Industrial Features
17	23m S	Electricity Sub Station	Greater London, DA17	Electrical Features	Infrastructure and Facilities
19	78m W	Wind Turbine	Greater London, DA17	Energy Production	Industrial Features
20	84m SW	Works	Greater London, DA18	Unspecified Works Or Factories	Industrial Features
21	87m S	Electricity Sub Station	Greater London, DA17	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
22	111m SW	Works	Greater London, DA18	Unspecified Works Or Factories	Industrial Features
23	118m E	Tank	Greater London, DA17	Tanks (Generic)	Industrial Features
24	118m S	Pumping Station	Greater London, DA17	Water Pumping Stations	Industrial Features
26	121m S	Electricity Sub Station	Greater London, DA17	Electrical Features	Infrastructure and Facilities
27	123m W	Chimney	Greater London, DA17	Chimneys	Industrial Features
28	134m S	Cesped	66, Hailey Road, Erith, Greater London, DA18 4AA	Distribution and Haulage	Transport, Storage and Delivery
29	144m S	Trezel Commercial s	66, Hailey Road, Erith, Greater London, DA18 4AA	Vehicle Repair, Testing and Servicing	Repair and Servicing
I	149m SW	Works	Greater London, DA18	Unspecified Works Or Factories	Industrial Features
I	160m SW	Vantage Press Ltd	5, Hailey Road, Erith, Greater London, DA18 4AA	Plate Makers, Print Finishers and Type Setters	IT, Advertising, Marketing and Media Services
I	161m SW	Works	Greater London, DA18	Unspecified Works Or Factories	Industrial Features
I	165m SW	Works	Greater London, DA18	Unspecified Works Or Factories	Industrial Features
30	170m E	Calor	Land at Burts Wharf, Crabtree Manorway North, Belvedere, Greater London, DA17 6JY	Fuel Distributors and Suppliers	Household, Office, Leisure and Garden
I	173m SW	Works	Greater London, DA18	Unspecified Works Or Factories	Industrial Features
I	173m S	Electricity Sub Station	Greater London, DA18	Electrical Features	Infrastructure and Facilities
31	182m S	Gantry	Greater London, DA17	Travelling Cranes and Gantries	Industrial Features
I	185m SW	Works	Greater London, DA18	Unspecified Works Or Factories	Industrial Features
I	186m SW	Meridian Technical Services Ltd	14, Hailey Road, Erith, Greater London, DA18 4AP	Waste Storage, Processing and Disposal	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
L	190m NW	Outfall	Greater London, DA17	Waste Storage, Processing and Disposal	Infrastructure and Facilities
I	192m SW	Kent Precision Tooling	9, Hailey Road, Erith, Greater London, DA18 4AA	Rubber, Silicones and Plastics	Industrial Products
I	204m S	Begg & Co	71, Hailey Road, Erith, Greater London, DA18 4AW	Rubber, Silicones and Plastics	Industrial Products
33	204m SW	Electricity Sub Station	Greater London, DA18	Electrical Features	Infrastructure and Facilities
34	208m S	Electricity Sub Station	Greater London, DA17	Electrical Features	Infrastructure and Facilities
I	209m S	Intersped Logistics UK Ltd	Williams House 61, Hailey Road, Erith, Greater London, DA18 4AA	Distribution and Haulage	Transport, Storage and Delivery
I	210m S	Electricity Sub Station	Greater London, DA18	Electrical Features	Infrastructure and Facilities
I	221m SW	A M K Distribution Ltd	13, Hailey Road, Erith, Greater London, DA18 4AA	Distribution and Haulage	Transport, Storage and Delivery
O	221m S	Factory	Greater London, DA18	Unspecified Works Or Factories	Industrial Features
O	225m S	Citipost	Eastern House 51, Hailey Road, Erith, Greater London, DA18 4AA	Distribution and Haulage	Transport, Storage and Delivery
I	228m SW	Seropa Ltd	15, Hailey Road, Erith, Greater London, DA18 4AA	Food and Beverage Industry Machinery	Industrial Products
I	234m S	Tank	Greater London, DA18	Tanks (Generic)	Industrial Features
I	234m SW	Works	Greater London, DA18	Unspecified Works Or Factories	Industrial Features
37	237m S	L A Waste Recycling	134, Norman Road, Belvedere, Greater London, DA17 6LD	Recycling, Reclamation and Disposal	Recycling Services
38	238m SE	Tank	Greater London, DA17	Tanks (Generic)	Industrial Features
39	240m SE	Works	Greater London, DA17	Unspecified Works Or Factories	Industrial Features
I	247m S	Hailey Road Business Park	Greater London, DA18	Business Parks and Industrial Estates	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

8

High voltage underground electricity transmission cables.

Features are displayed on the Current industrial land use map on [page 68 >](#)

ID	Location	Cable Set	Cable Route	Details	
C	On site	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
C	On site	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
D	On site	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
D	On site	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
E	On site	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
E	On site	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
P	270m SW	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified
P	271m SW	-	-	Cable Make: - Cable Type: PILOT Operating Voltage (kV): -	Year of installation: Not specified Cable in tunnel? Not specified



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

5

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 68 >](#)

ID	Location	Company	Address	Operational status	Tier
9	On site	Thames Water Utilities Limited	Thames Water Utilities Limited, Crossness Sewage Treatment Works, Belvedere Road, Abbey Wood, Greater London, SE2 9AQ	Current COMAH Site	COMAH Lower Tier Operator
13	3m E	Nufarm Ltd	Nufarm Ltd, Crabtree Manorway, Belvedere, DA17 6BQ	Historical COMAH Site	-
T	374m NE	Flogas Britain Limited	Flogas Britain Limited, Rainham, Marsh Way, Rainham, Essex, RM13 8UH	Current COMAH Site	COMAH Upper Tier Operator
45	447m S	British Gas	British Gas, Belvedere Gas Holder Station, Sutherland Road, Belveder	Historical NIHHS Site	-
47	467m SE	Henkel Ltd	Henkel Ltd, Erith Ind Est, Crabtree Manorway North, Belvedere, DA17 6AT	Historical COMAH Site	-

This data is sourced from the Health and Safety Executive.



4.7 Regulated explosive sites

Records within 500m	0
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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	7
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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 68 >](#)

ID	Location	Details	
25	121m SE	Application reference number: No Details Application status: Approved Application date: No Details Address: Asda Stores Ltd, Asda Erith CDC Distribution Centre, Norman Road, Belvedere, England, DA17 6JY	Details: No Details Enforcement: No Details Date of enforcement: No Details Comment: No Details
32	192m SE	Application reference number: No Details Application status: Historical Consent Application date: No Details Address: ASDA Stores Limited, Norman Road, Belvedere, England, DA17 6JY	Details: No Details Enforcement: No Details Date of enforcement: No Details Comment: No Details
R	362m SE	Application reference number: 06/01154/HAZ Application status: Historical Consent Application date: 22/03/2006 Address: Nufarm UK Ltd, Crabtree Manorway North, Belvedere, Kent, DA17 6BQ	Details: Hazardous Substances Consent For Storage And Use Of Specified Hazardous Substances (removing The Use And Storage Of Chlorine) Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
R	362m SE	Application reference number: No Details Application status: Approved Application date: No Details Address: Calor Gas, Burts Wharf Industrial Estate, Crabtree Manorway North, North Belvedere, Bexley London Borough Council, England, DA17 6LJ	Details: No Details Enforcement: No Details Date of enforcement: No Details Comment: No Details
R	380m SE	Application reference number: 02/01358/HAZ Application status: Approved Application date: 10/04/2002 Address: Nufarm UK Ltd, Crabtree Manorway North, Belvedere, Bexley London Borough Council, England, DA17 6BQ	Details: Hazardous Substances Consent For Storage And Use Of A Wider Range Of Hazardous Substances Covered By The Amendments Of The Control Of Major Accident Hazards (comah) Regulations 1999. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified



ID	Location	Details	
T	496m NE	Application reference number: H0002.92 Application status: Historical Consent Application date: 17/12/1992 Address: Flogas Ltd, Fairview Industrial Estate, Marsh Way, Rainham, RM13 8UH	Details: Storage of liquified petroleum gas in quantities above the controlled level Enforcement: No Enforcments Notified Date of enforcement: No Enforcments Notified Comment: No Enforcments Notified
T	496m NE	Application reference number: H0001.92 Application status: Approved Application date: 09/06/1992 Address: Flogas Britain Ltd, Marsh Way, Fairview Industrial Estate, Rainham, Essex, England, RM13 8UH	Details: Storage and distribution of liquified petroleum gas in bulk and in cylinders Enforcement: No Enforcments Notified Date of enforcement: No Enforcments Notified Comment: No Enforcments Notified

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	26
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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 68 >](#)

ID	Location	Details	
B	On site	Operator: Riverside Resource Recovery Ltd Address: Norman Road, Belvedere, Kent, DA17 6JY Process: Incineration Permit Number: AH8719	Original Permit Number: IPCAPP Date Approved: 25-5-1993 Effective Date: 25-5-1993 Status: Superseded By Variation
B	On site	Operator: Riverside Resource Recovery Ltd Address: Norman Road, Belvedere, Kent, DA17 6JY Process: Incineration Permit Number: AJ4901	Original Permit Number: IPCMINVAR Date Approved: 20-9-1993 Effective Date: 20-9-1993 Status: Superseded By Variation
B	On site	Operator: Riverside Resource Recovery Ltd Address: Norman Road, Belvedere, Kent, DA17 6JY Process: Incineration Permit Number: BC4672	Original Permit Number: IPCMINVAR Date Approved: 3-2-1999 Effective Date: 1-3-1999 Status: Superseded By Variation
B	On site	Operator: Riverside Resource Recovery Ltd Address: Norman Road, Belvedere, Kent, DA17 6JY Process: Incineration Permit Number: BC6098	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
B	On site	Operator: Riverside Resource Recovery Ltd Address: Norman Road, Belvedere, Kent, DA17 6JY Process: Incineration Permit Number: BH1484	Original Permit Number: IPCMINVAR Date Approved: 24-3-2000 Effective Date: 3-4-2000 Status: Revoked - Now Ippc



ID	Location	Details	
N	215m S	Operator: Cray Valley Ltd Address: Crabtree Manorway South, Belvedere, Kent, DA17 6BA Process: Manufacture And Use Of Organic Chemicals Permit Number: AJ8044	Original Permit Number: IPCAPP Date Approved: 16-3-1994 Effective Date: 16-3-1994 Status: Superseded By Variation
N	215m S	Operator: Cray Valley Ltd Address: Crabtree Manorway South, Belvedere, Kent, DA17 6BA Process: Manufacture And Use Of Organic Chemicals Permit Number: AX6460	Original Permit Number: IPCMINVAR Date Approved: 22-9-1999 Effective Date: 1-10-1999 Status: Revoked
N	215m S	Operator: Cray Valley Ltd Address: Crabtree Manorway South, Belvedere, Kent, DA17 6BA Process: Manufacture And Use Of Organic Chemicals Permit Number: BC6195	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
N	215m S	Operator: Cray Valley Ltd Address: Crabtree Manorway South, Belvedere, Kent, DA17 6BA Process: Manufacture And Use Of Organic Chemicals Permit Number: BE9438	Original Permit Number: IPCMINVAR Date Approved: 3-2-1999 Effective Date: 1-3-1999 Status: Superseded By Variation
R	380m SE	Operator: Henkel Ltd Address: Crabtree Manorway North, Belvedere, Kent, DA17 6AT Process: Acid Processes Permit Number: AG2987	Original Permit Number: IPCAIRAPP Date Approved: 26-11-1992 Effective Date: 26-11-1992 Status: Superseded By Variation
R	380m SE	Operator: Henkel Ltd Address: Crabtree Manorway North, Belvedere, Kent, DA17 6AT Process: Acid Processes Permit Number: AK4613	Original Permit Number: IPCMINVAR Date Approved: 28-10-1993 Effective Date: 28-10-1993 Status: Superseded By Variation
R	380m SE	Operator: Nufarm UK Ltd Address: Crabtree Manorway North, Belvedere, Kent, DA17 6AT Process: Processes Involving Halogens Permit Number: AL6018	Original Permit Number: IPCAIRAPP Date Approved: 16-5-1994 Effective Date: 23-5-1994 Status: Superseded By Variation
R	380m SE	Operator: Nufarm UK Ltd Address: Crabtree Manorway North, Belvedere, Kent, DA17 6AT Process: Processes Involving Halogens Permit Number: AT9963	Original Permit Number: IPCMINVAR Date Approved: 8-3-1996 Effective Date: 15-3-1996 Status: Superseded By Variation
R	380m SE	Operator: Henkel Ltd Address: Crabtree Manorway North, Belvedere, Kent, DA17 6AT Process: Acid Processes Permit Number: AZ7670	Original Permit Number: IPCMINVAR Date Approved: 3-8-2000 Effective Date: 17-8-2000 Status: Revoked - Now Ippc



ID	Location	Details	
R	380m SE	Operator: Nufarm UK Ltd Address: Crabtree Manorway North, Belvedere, Kent, DA17 6AT Process: Processes Involving Halogens Permit Number: BC4702	Original Permit Number: IPCMINVAR Date Approved: 3-2-1999 Effective Date: 1-3-1999 Status: Superseded By Variation
R	380m SE	Operator: Henkel Ltd Address: Crabtree Manorway North, Belvedere, Kent, DA17 6AT Process: Acid Processes Permit Number: BC6594	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
R	380m SE	Operator: Nufarm UK Ltd Address: Crabtree Manorway North, Belvedere, Kent, DA17 6AT Process: Processes Involving Halogens Permit Number: BD3426	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
R	380m SE	Operator: Henkel Ltd Address: Crabtree Manorway North, Belvedere, Kent, DA17 6AT Process: Acid Processes Permit Number: BE9560	Original Permit Number: IPCMINVAR Date Approved: 3-2-1999 Effective Date: 1-3-1999 Status: Superseded By Variation
R	380m SE	Operator: Nufarm UK Ltd Address: Crabtree Manorway North, Belvedere, Kent, DA17 6AT Process: Processes Involving Halogens Permit Number: BL0723	Original Permit Number: IPCMINVAR Date Approved: 30-11-2001 Effective Date: 1-12-2001 Status: Revoked - Now Ippc
Z	447m SE	Operator: Nufarm UK Ltd Address: Crabtree Manorway North, Belvedere, Kent, DA17 6BQ Process: Manufacture And Use Of Organic Chemicals Permit Number: AK1312	Original Permit Number: IPCAIRAPP Date Approved: 8-2-1994 Effective Date: 8-2-1994 Status: Superseded By Variation
Z	447m SE	Operator: Nufarm UK Ltd Address: Crabtree Manorway North, Belvedere, Kent, DA17 6BQ Process: Manufacture And Use Of Organic Chemicals Permit Number: AT9955	Original Permit Number: IPCMINVAR Date Approved: 8-3-1996 Effective Date: 15-3-1996 Status: Superseded By Variation
Z	447m SE	Operator: Nufarm UK Ltd Address: Crabtree Manorway North, Belvedere, Kent, DA17 6BQ Process: Manufacture And Use Of Organic Chemicals Permit Number: AX0011	Original Permit Number: IPCMINVAR Date Approved: 21-4-1997 Effective Date: 21-5-1997 Status: Superseded By Variation
Z	447m SE	Operator: Nufarm UK Ltd Address: Crabtree Manorway North, Belvedere, Kent, DA17 6BQ Process: Manufacture And Use Of Organic Chemicals Permit Number: BC4699	Original Permit Number: IPCMINVAR Date Approved: 3-2-1999 Effective Date: 1-3-1999 Status: Superseded By Variation



ID	Location	Details	
Z	447m SE	Operator: Nufarm UK Ltd Address: Crabtree Manorway North, Belvedere, Kent, DA17 6BQ Process: Manufacture And Use Of Organic Chemicals Permit Number: BD7391	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
Z	447m SE	Operator: Nufarm UK Ltd Address: Crabtree Manorway North, Belvedere, Kent, DA17 6BQ Process: Manufacture And Use Of Organic Chemicals Permit Number: BL3757	Original Permit Number: IPCMINVAR Date Approved: 30-11-2001 Effective Date: 1-12-2001 Status: Superseded By Variation
Z	447m SE	Operator: Nufarm UK Ltd Address: Crabtree Manorway North, Belvedere, Kent, DA17 6BQ Process: Manufacture And Use Of Organic Chemicals Permit Number: BM3566	Original Permit Number: IPCMINVAR Date Approved: 9-1-2002 Effective Date: 14-1-2002 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

46

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 68 >](#)

ID	Location	Details	
B	On site	Operator: CORY ENVIRONMENTAL HOLDINGS LIMITED Installation Name: Riverside Energy Park Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: GP3535QS Original Permit Number: GP3535QS	EPR Reference: EPR/GP3535QS Issue Date: 17/07/2020 Effective Date: 17/07/2020 Last date noted as effective: 25/05/2023 Status: Effective
B	On site	Operator: CORY ENVIRONMENTAL HOLDINGS LIMITED Installation Name: Riverside Energy Park Process: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR. Permit Number: GP3535QS Original Permit Number: GP3535QS	EPR Reference: EPR/GP3535QS Issue Date: 17/07/2020 Effective Date: 17/07/2020 Last date noted as effective: 25/05/2023 Status: Effective



ID	Location	Details	
B	On site	<p>Operator: Riverside Resource Recovery Limited Installation Name: Riverside Resource Recovery EPR/BK0825IU Process: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR. Permit Number: DP3923PB Original Permit Number: BK0825IU</p>	<p>EPR Reference: - Issue Date: 12/10/2022 Effective Date: 19/10/2022 Last date noted as effective: 21/03/2023 Status: Effective</p>
B	On site	<p>Operator: RIVERSIDE RESOURCE RECOVERY LTD Installation Name: - Process: WASTE INCINERATION; MUNICIPAL WASTE >3T/HR Permit Number: BK0825 Original Permit Number: BK0825</p>	<p>EPR Reference: - Issue Date: 08/09/2003 Effective Date: 08/09/2003 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS</p>
B	On site	<p>Operator: Riverside Resource Recovery Limited Installation Name: RIVERSIDE RESOURCE RECOVERY Process: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR. Permit Number: RP3008SK Original Permit Number: BK0825IU</p>	<p>EPR Reference: - Issue Date: 02/06/2020 Effective Date: 02/06/2020 Last date noted as effective: 21/03/2023 Status: Superseded</p>
B	On site	<p>Operator: Riverside Resource Recovery Limited Installation Name: Riverside Resource Recovery EPR/BK0825IU Process: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR. Permit Number: VP3230WG Original Permit Number: BK0825IU</p>	<p>EPR Reference: - Issue Date: 27/10/2014 Effective Date: 27/10/2014 Last date noted as effective: 21/03/2023 Status: Superseded</p>
B	On site	<p>Operator: Riverside Resource Recovery Limited Installation Name: Riverside Resource Recovery Limited EPR/BK0825IU Process: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR. Permit Number: QP3000MT Original Permit Number: BK0825IU</p>	<p>EPR Reference: - Issue Date: 25/08/2022 Effective Date: 25/08/2022 Last date noted as effective: 21/03/2023 Status: Superseded</p>
B	On site	<p>Operator: Riverside Resource Recovery Limited Installation Name: RIVERSIDE RESOURCE RECOVERY Process: INCINERATION OF NON HAZARDOUS WASTE >1T/HR Permit Number: XP3538CF Original Permit Number: BK0825IU</p>	<p>EPR Reference: - Issue Date: 21/03/2012 Effective Date: 21/03/2012 Last date noted as effective: 21/03/2023 Status: Superseded</p>



ID	Location	Details	
B	On site	Operator: Riverside Resource Recovery Limited Installation Name: RIVERSIDE RESOURCE RECOVERY Process: WASTE INCINERATION; HAZARDOUS WASTE UNLESS OTHERWISE STATED Permit Number: BK0825IU Original Permit Number: BK0825IU	EPR Reference: - Issue Date: 08/09/2003 Effective Date: 08/09/2003 Last date noted as effective: 21/03/2023 Status: Superseded
B	On site	Operator: Riverside Resource Recovery Limited Installation Name: RIVERSIDE RESOURCE RECOVERY Process: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR. Permit Number: BP3233VV Original Permit Number: BK0825IU	EPR Reference: - Issue Date: 06/02/2014 Effective Date: 06/02/2014 Last date noted as effective: 21/03/2023 Status: Superseded
B	On site	Operator: Riverside Resource Recovery Limited Installation Name: RIVERSIDE RESOURCE RECOVERY Process: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR. Permit Number: JP3600PW Original Permit Number: BK0825IU	EPR Reference: - Issue Date: 22/05/2019 Effective Date: 22/05/2019 Last date noted as effective: 21/03/2023 Status: Superseded
B	On site	Operator: Riverside Resource Recovery Limited Installation Name: RIVERSIDE RESOURCE RECOVERY Process: INCINERATION OF NON HAZARDOUS WASTE >1T/HR Permit Number: RP3432UT Original Permit Number: BK0825IU	EPR Reference: - Issue Date: 04/10/2007 Effective Date: 04/10/2007 Last date noted as effective: 21/03/2023 Status: Superseded
B	On site	Operator: Riverside Resource Recovery Limited Installation Name: RIVERSIDE RESOURCE RECOVERY Process: INCINERATION OF NON HAZARDOUS WASTE >1T/HR Permit Number: SP3836ZG Original Permit Number: BK0825IU	EPR Reference: - Issue Date: 07/02/2013 Effective Date: 07/02/2013 Last date noted as effective: 21/03/2023 Status: Superseded
B	On site	Operator: RIVERSIDE RESOURCE RECOVERY LIMITED Installation Name: Riverside Resource Recovery EPR/BK0825IU Process: INCINERATION OF NON-HAZARDOUS WASTE 5.1 A(1) B) Permit Number: BK0825IU Original Permit Number: BK0825IU	EPR Reference: EPR/BK0825IU Issue Date: 19/10/2022 Effective Date: 19/10/2022 Last date noted as effective: 25/05/2023 Status: Effective



ID	Location	Details	
K	173m W	Operator: Thames Water Utilities Limited Installation Name: Crossness STW Combined Heat and Power Plant - EPR/PB3239AW Process: COMBUSTION; ANY FUEL =>50MW Permit Number: BP3937QT Original Permit Number: BP3937QT	EPR Reference: - Issue Date: 23/02/2021 Effective Date: 23/02/2021 Last date noted as effective: 21/03/2023 Status: Effective
K	173m W	Operator: Thames Water Utilities Ltd Installation Name: Crossness Sludge Powered Generator - EPR/UP3737PQ Process: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR. Permit Number: MP3732EA Original Permit Number: UP3737PQ	EPR Reference: - Issue Date: 17/12/2013 Effective Date: 17/12/2013 Last date noted as effective: 21/03/2023 Status: Effective
K	173m W	Operator: Thames Water Utilities Ltd Installation Name: Crossness Sludge Powered Generator Process: INCINERATION OF NON HAZARDOUS WASTE >1T/HR Permit Number: UP3737PQ Original Permit Number: UP3737PQ	EPR Reference: - Issue Date: 26/10/2005 Effective Date: 26/10/2005 Last date noted as effective: 21/03/2023 Status: Superseded
K	173m W	Operator: THAMES WATER UTILITIES LIMITED Installation Name: Crossness STW Combined Heat and Power Plant - EPR/PB3239AW Process: COMBUSTION; ANY FUEL =>50MW Permit Number: PB3239AW Original Permit Number: BP3937QT	EPR Reference: EPR/PB3239AW Issue Date: 23/02/2021 Effective Date: 23/02/2021 Last date noted as effective: 25/05/2023 Status: Effective
K	173m W	Operator: THAMES WATER UTILITIES LIMITED Installation Name: Crossness Sludge Powered Generator - EPR/UP3737PQ Process: INCINERATION OF NON-HAZARDOUS WASTE 5.1 A(1) B) Permit Number: UP3737PQ Original Permit Number: UP3737PQ	EPR Reference: EPR/UP3737PQ Issue Date: 17/12/2013 Effective Date: 17/12/2013 Last date noted as effective: 25/05/2023 Status: Effective
S	366m SE	Operator: NUFARM LIMITED Installation Name: Belvedere Crop Protection Facility Process: PLANT HEALTH AND BIOCIDES; PRODUCING PLANT HEALTH PRODUCTS/BIOCIDES Permit Number: ZP3630LK Original Permit Number: ZP3630LK	EPR Reference: EPR/ZP3630LK Issue Date: 24/02/2011 Effective Date: 24/02/2011 Last date noted as effective: 25/05/2023 Status: Surrendered



ID	Location	Details	
S	366m SE	Operator: Nufarm UK Ltd Installation Name: Belvedere Crop Protection Facility Process: PLANT HEALTH AND BIOCIDES; PRODUCING PLANT HEALTH PRODUCTS/BIOCIDES Permit Number: JP3038TM Original Permit Number: ZP3630LK	EPR Reference: - Issue Date: - Effective Date: 24/02/2011 Last date noted as effective: 21/03/2023 Status: Surrender Effective
W	394m NE	Operator: NOVERA VENTURES LIMITED Installation Name: East London Sustainable Energy Facility EPR/MP3537SN Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: MP3537SN Original Permit Number: MP3537SN	EPR Reference: EPR/MP3537SN Issue Date: 15/09/2006 Effective Date: 15/09/2006 Last date noted as effective: 25/05/2023 Status: Superseded
W	394m NE	Operator: NOVERA VENTURES LIMITED Installation Name: East London Sustainable Energy Facility EPR/MP3537SN Process: COMBUSTION; ANY FUEL =>50MW Permit Number: MP3537SN Original Permit Number: MP3537SN	EPR Reference: EPR/MP3537SN Issue Date: 15/09/2006 Effective Date: 15/09/2006 Last date noted as effective: 25/05/2023 Status: Superseded
W	394m NE	Operator: Biossence (East London) Ltd Installation Name: East London Sustainable Energy Facility EPRVP3535KF Process: COMBUSTION; ANY FUEL =>50MW Permit Number: VP3535KF Original Permit Number: VP3535KF	EPR Reference: - Issue Date: 28/07/2009 Effective Date: 28/07/2009 Last date noted as effective: 21/03/2023 Status: Superceded
W	394m NE	Operator: Biossence (East London) Limited Installation Name: East London Sustainable Energy Facility EPRVP3535KF Process: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR. Permit Number: YP3739VZ Original Permit Number: VP3535KF	EPR Reference: - Issue Date: 05/03/2014 Effective Date: 14/10/2016 Last date noted as effective: 21/03/2023 Status: Revoked
W	394m NE	Operator: Biossence (East London) Ltd Installation Name: East London Sustainable Energy Facility EPRVP3535KF Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: VP3535KF Original Permit Number: VP3535KF	EPR Reference: - Issue Date: 28/07/2009 Effective Date: 28/07/2009 Last date noted as effective: 21/03/2023 Status: Superceded



ID	Location	Details	
W	394m NE	Operator: Biossence (East London) Ltd Installation Name: East London Sustainable Energy Facility EPRVP3535KF Process: INCINERATION OF NON HAZARDOUS WASTE >1T/HR Permit Number: GP3833ZZ Original Permit Number: VP3535KF	EPR Reference: - Issue Date: 21/01/2013 Effective Date: 21/01/2013 Last date noted as effective: 21/03/2023 Status: Superseded
W	394m NE	Operator: Biossence (East London) Ltd Installation Name: East London Sustainable Energy Facility EPRVP3535KF Process: COMBUSTION; ANY FUEL =>50MW Permit Number: NP3837KZ Original Permit Number: VP3535KF	EPR Reference: - Issue Date: 22/12/2010 Effective Date: 22/12/2010 Last date noted as effective: 21/03/2023 Status: Superseded
W	394m NE	Operator: Biossence (East London) Ltd Installation Name: East London Sustainable Energy Facility EPRVP3535KF Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: NP3837KZ Original Permit Number: VP3535KF	EPR Reference: - Issue Date: 22/12/2010 Effective Date: 22/12/2010 Last date noted as effective: 21/03/2023 Status: Superseded
W	394m NE	Operator: BIOSSENCE (EAST LONDON) LIMITED Installation Name: East London Sustainable Energy Facility EPRVP3535KF Process: COINCINERATION OF HAZARDOUS WASTE Permit Number: VP3535KF Original Permit Number: VP3535KF	EPR Reference: EPR/VP3535KF Issue Date: 14/10/2016 Effective Date: 14/10/2016 Last date noted as effective: 25/05/2023 Status: Revoked
AB	468m NE	Operator: RENEWI UK SERVICES LIMITED Installation Name: FROG ISLAND WASTE MANAGEMENT FACILITY Process: ASSOCIATED PROCESS Permit Number: WP3436YS Original Permit Number: ZP3533BS	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/07/2018 Status: DETERMINATION
AB	468m NE	Operator: RENEWI UK SERVICES LIMITED Installation Name: FROG ISLAND WASTE MANAGEMENT FACILITY EPR/ZP3533BS Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: UP3602SF Original Permit Number: ZP3533BS	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/10/2021 Status: DETERMINATION
AB	468m NE	Operator: Shanks Waste Management Ltd Installation Name: Frog Island WM Facility EPR/ZP3533BS/V006 Process: ASSOCIATED PROCESS Permit Number: HP3634VK Original Permit Number: ZP3533BS	EPR Reference: - Issue Date: 02/04/2015 Effective Date: 02/04/2015 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
AB	468m NE	Operator: Renewi UK Services Limited Installation Name: Frog Island Waste Management Facility EPR/ZP3533BS Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: TP3937YF Original Permit Number: ZP3533BS	EPR Reference: - Issue Date: 26/04/2019 Effective Date: 26/04/2019 Last date noted as effective: 21/03/2023 Status: Superseded
AB	468m NE	Operator: Renewi UK Services Limited Installation Name: Frog Island Waste Management Facility EPR/ZP3533BS Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: WP3436YS Original Permit Number: ZP3533BS	EPR Reference: - Issue Date: 29/06/2018 Effective Date: 29/06/2018 Last date noted as effective: 21/03/2023 Status: Superseded
AB	468m NE	Operator: Shanks Waste Management Limited Installation Name: Frog Island Waste Management Facility EPR/ZP3533BS Process: ASSOCIATED PROCESS Permit Number: RP3539YU Original Permit Number: ZP3533BS	EPR Reference: - Issue Date: 17/01/2017 Effective Date: 17/01/2017 Last date noted as effective: 21/03/2023 Status: Superseded
AB	468m NE	Operator: Shanks Waste Management Limited Installation Name: Frog Island Waste Management Facility EPR/ZP3533BS Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: RP3539YU Original Permit Number: ZP3533BS	EPR Reference: - Issue Date: 17/01/2017 Effective Date: 17/01/2017 Last date noted as effective: 21/03/2023 Status: Superseded
AB	468m NE	Operator: Shanks Waste Management Ltd Installation Name: Frog Island WM Facility EPR/ZP3533BS/V006 Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: HP3634VK Original Permit Number: ZP3533BS	EPR Reference: - Issue Date: 02/04/2015 Effective Date: 02/04/2015 Last date noted as effective: 21/03/2023 Status: Superseded
AB	468m NE	Operator: Renewi UK Services Limited Installation Name: Frog Island Waste Management Facility EPR/ZP3533BS Process: ASSOCIATED PROCESS Permit Number: UP3602SF Original Permit Number: ZP3533BS	EPR Reference: - Issue Date: 02/11/2021 Effective Date: 02/11/2021 Last date noted as effective: 21/03/2023 Status: Effective



ID	Location	Details	
AB	468m NE	Operator: Renewi UK Services Limited Installation Name: Frog Island Waste Management Facility EPR/ZP3533BS Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: UP3602SF Original Permit Number: ZP3533BS	EPR Reference: - Issue Date: 02/11/2021 Effective Date: 02/11/2021 Last date noted as effective: 21/03/2023 Status: Effective
AB	468m NE	Operator: Renewi UK Services Limited Installation Name: Frog Island Waste Management Facility EPR/ZP3533BS Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: WP3436YS Original Permit Number: ZP3533BS	EPR Reference: - Issue Date: 29/06/2018 Effective Date: 29/06/2018 Last date noted as effective: 21/03/2023 Status: Superseded
AB	468m NE	Operator: Renewi UK Services Limited Installation Name: Frog Island Waste Management Facility EPR/ZP3533BS Process: ASSOCIATED PROCESS Permit Number: TP3937YF Original Permit Number: ZP3533BS	EPR Reference: - Issue Date: 26/04/2019 Effective Date: 26/04/2019 Last date noted as effective: 21/03/2023 Status: Superseded
AB	468m NE	Operator: Renewi UK Services Limited Installation Name: Frog Island Waste Management Facility EPR/ZP3533BS Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PRE-TREATMENT OF WASTE FOR INCINERATION OR CO-INCINERATION Permit Number: UP3602SF Original Permit Number: ZP3533BS	EPR Reference: - Issue Date: 02/11/2021 Effective Date: 02/11/2021 Last date noted as effective: 21/03/2023 Status: Effective
AB	468m NE	Operator: RENEWI UK SERVICES LIMITED Installation Name: Frog Island Waste Management Facility EPR/ZP3533BS Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 75 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: ZP3533BS Original Permit Number: ZP3533BS	EPR Reference: EPR/ZP3533BS Issue Date: 02/11/2021 Effective Date: 02/11/2021 Last date noted as effective: 25/05/2023 Status: Effective



ID	Location	Details	
AB	468m NE	Operator: RENEWI UK SERVICES LIMITED Installation Name: Frog Island Waste Management Facility Facility EPR/ZP3533BS Process: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PRE-TREATMENT OF WASTE FOR INCINERATION OR CO-INCINERATION Permit Number: ZP3533BS Original Permit Number: ZP3533BS	EPR Reference: EPR/ZP3533BS Issue Date: 02/11/2021 Effective Date: 02/11/2021 Last date noted as effective: 25/05/2023 Status: Effective
AB	468m NE	Operator: RENEWI UK SERVICES LIMITED Installation Name: Frog Island Waste Management Facility Facility EPR/ZP3533BS Process: ASSOCIATED PROCESS Permit Number: ZP3533BS Original Permit Number: ZP3533BS	EPR Reference: EPR/ZP3533BS Issue Date: 02/11/2021 Effective Date: 02/11/2021 Last date noted as effective: 25/05/2023 Status: Effective

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

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

Records within 500m	3
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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 68 >](#)

ID	Location	Address	Details	
41	278m E	Keith Ceramic Materials Ltd, Fishers Way, Belvedere, DA17 6BS	Process: Manufacture of Clay Status: Revoked Permit Type: Part B	Enforcement: Enforcement Served Date of enforcement: 27/08/1999 Comment: Removal of chimney cowl.
42	343m N	Ford Motor Co. Limited, Ford Industrial Park, Ford Mot, Thames Avenue, Dagenham, Essex, RM9 6S	Process: Burning any Fuel in Appliance Thermal Input >50MW Status: Historical Permit Permit Type: Part A2	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
43	411m SE	Vencil Resil Ltd, Infinity House, Anderson Way, Belvedere, DA17 6BG	Process: Coating Processes Status: Revoked Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.



4.12 Radioactive Substance Authorisations

Records within 500m	0
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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	34
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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 68](#) >

ID	Location	Address	Details	
10	On site	LIDL UK GMBH DISTRIBUTION WAREHOUSE, FISHERS WAY, CRABTREE MANOR WAY NORTH, BELVEDERE, KENT, DA17 6BS	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CASM.0331 Permit Version: 1 Receiving Water: TIDAL RIVER THAMES	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 30/04/2001 Effective Date: 11/10/2000 Revocation Date: -
F	On site	CONSTRUCTION AT RIVERSIDE RESOURCE, THE RIVERSIDE RESOURCE RECOVERY, FACILITY, NORMAN ROAD, BELVEDERE, LONDON, DA17 6JY	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: NPSWQD004677 Permit Version: 1 Receiving Water: THE RIVER THAMES	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 09/10/2008 Effective Date: 09/10/2008 Revocation Date: 30/06/2009
F	On site	CONSTRUCTION AT RIVERSIDE RESOURCE, THE RIVERSIDE RESOURCE RECOVERY, FACILITY, NORMAN ROAD, BELVEDERE, LONDON, DA17 6JY	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: NPSWQD003744 Permit Version: 1 Receiving Water: THE RIVER THAMES	Status: SURRENDERED UNDER EPR 2010 Issue date: 09/10/2008 Effective Date: 09/10/2008 Revocation Date: 30/11/2012
H	138m S	Norman Road, Norman Road	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.1593 Permit Version: 2 Receiving Water: Thames	Status: SURRENDERED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 19/08/2014



ID	Location	Address	Details	
H	138m S	Norman Road, Norman Road	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.1593 Permit Version: 1 Receiving Water: THAMES	Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 02/09/2010
L	200m NW	CROSSNESS WWTW, BELVEDERE ROAD, ABBEY WOOD, LONDON, SE2 9AQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CSSA.0362 Permit Version: 8 Receiving Water: THAMES TIDAL	Status: VARIED UNDER EPR 2010 Issue date: 12/12/2018 Effective Date: 12/12/2018 Revocation Date: -
L	200m NW	CROSSNESS WWTW, BELVEDERE ROAD, ABBEY WOOD, LONDON, SE2 9AQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CSSA.0362 Permit Version: 8 Receiving Water: THAMES TIDAL	Status: VARIED UNDER EPR 2010 Issue date: 12/12/2018 Effective Date: 12/12/2018 Revocation Date: -
L	200m NW	CROSSNESS WWTW, BELVEDERE ROAD, ABBEY WOOD, LONDON, SE2 9AQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CSSA.0362 Permit Version: 8 Receiving Water: THAMES TIDAL	Status: VARIED UNDER EPR 2010 Issue date: 12/12/2018 Effective Date: 12/12/2018 Revocation Date: -
L	200m NW	CROSSNESS WWTW, BELVEDERE ROAD, ABBEY WOOD, LONDON, SE2 9AQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CSSA.0362 Permit Version: 5 Receiving Water: THAMES TIDAL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 31/03/2005 Effective Date: 01/04/2010 Revocation Date: 30/03/2014
L	200m NW	CROSSNESS WWTW, BELVEDERE ROAD, ABBEY WOOD, LONDON, SE2 9AQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CSSA.0362 Permit Version: 3 Receiving Water: THAMES	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 31/03/2005 Effective Date: 31/03/2005 Revocation Date: 30/01/2007
L	200m NW	CROSSNESS WWTW, BELVEDERE ROAD, ABBEY WOOD, LONDON, SE2 9AQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CSSA.0362 Permit Version: 7 Receiving Water: THAMES TIDAL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 28/01/2009 Effective Date: 01/04/2009 Revocation Date: 31/03/2010



ID	Location	Address	Details	
L	200m NW	CROSSNESS WWTW, BELVEDERE ROAD, ABBEY WOOD, LONDON, SE2 9AQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CSSA.0362 Permit Version: 6 Receiving Water: THAMES TIDAL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 31/03/2010 Effective Date: 31/03/2014 Revocation Date: 11/12/2018
L	200m NW	CROSSNESS WWTW, BELVEDERE ROAD, ABBEY WOOD, LONDON, SE2 9AQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CSSA.0362 Permit Version: 6 Receiving Water: THAMES TIDAL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 31/03/2010 Effective Date: 31/03/2014 Revocation Date: 11/12/2018
L	200m NW	CROSSNESS WWTW, BELVEDERE ROAD, ABBEY WOOD, LONDON, SE2 9AQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CSSA.0362 Permit Version: 4 Receiving Water: THAMES TIDAL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 31/01/2007 Effective Date: 31/01/2007 Revocation Date: 31/03/2009
L	200m NW	CROSSNESS WWTW, BELVEDERE ROAD, ABBEY WOOD, LONDON, SE2 9AQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CSSA.0362 Permit Version: 6 Receiving Water: THAMES TIDAL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 31/03/2010 Effective Date: 31/03/2014 Revocation Date: 11/12/2018
M	213m E	DEVELOPMENT AT FISHERS WAY, BELVEDE, DEVELOPMENT AT FISHERS WAY, BELV, EDERE, KENT	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CNTW.0980 Permit Version: 2 Receiving Water: RIVER THAMES	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 08/03/1991 Effective Date: 06/11/1992 Revocation Date: 01/10/1996
M	213m E	DEVELOPMENT AT FISHERS WAY, BELVEDE, DEVELOPMENT AT FISHERS WAY, BELV, EDERE, KENT	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: CNTW.0980 Permit Version: 1 Receiving Water: RIVER THAMES	Status: TRANSFERRED FROM WATER ACT 1989 Issue date: 08/03/1991 Effective Date: 08/03/1991 Revocation Date: 05/11/1992
36	226m SW	BELVEDERE, KENT, BELVEDERE, KENT	Effluent Type: TRADE DISCHARGES - UNSPECIFIED Permit Number: CPLP.0140 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 28/06/1968 Effective Date: 07/12/1973 Revocation Date: 20/03/1991
Q	273m W	CROSSNESS WWTW, BELVEDERE ROAD, ABBEY WOOD, LONDON, SE2 9AQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CSSA.0362 Permit Version: 1 Receiving Water: THAMES	Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 22/03/1978 Effective Date: 31/01/1985 Revocation Date: 20/12/2000



ID	Location	Address	Details	
Q	273m W	CROSSNESS WWTW, BELVEDERE ROAD, ABBEY WOOD, LONDON, SE2 9AQ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: CSSA.0362 Permit Version: 2 Receiving Water: THAMES	Status: VARIED BY APPLICATION - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 21/12/2000 Effective Date: 21/12/2000 Revocation Date: 30/03/2005
Q	273m W	Crossness, Crossness	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: TEMP.2507 Permit Version: 1 Receiving Water: TIDEWAY	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 30/03/2005
X	421m SE	Crabtree Manorway, Crabtree Manorway	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.0770 Permit Version: 2 Receiving Water: Thames	Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: -
X	421m SE	Crabtree Manorway, Crabtree Manorway	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.0770 Permit Version: 1 Receiving Water: THAMES	Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 02/09/2010
Y	428m SE	SIDCUP PLANT HIRE, SIDCUP PLANT HIRE, FISHERS WAY SOUTH SIDE, BELVEDERE KENT	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: T03195 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 01/04/1991 Effective Date: 01/04/1991 Revocation Date: 31/03/1997
Y	428m SE	SIDCUP PLANT HIRE, FISHERS WAY SOUT, SIDCUP PLANT HIRE, FISHERS WAY S, OUTH SIDE, BELVEDERE, KENT	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CTWC.2777 Permit Version: 1 Receiving Water: DITCH	Status: REVOKED - UNSPECIFIED Issue date: 02/09/1988 Effective Date: 02/09/1988 Revocation Date: 21/02/1991
46	447m SW	BELVEDERE POWER STATION, BELVEDERE, BELVEDERE POWER STATION, BELVEDE, RE, KENT	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: CTMR.0107 Permit Version: 1 Receiving Water: THAMES	Status: REVOKED - UNSPECIFIED Issue date: 07/07/1976 Effective Date: 07/07/1976 Revocation Date: 15/01/1992



ID	Location	Address	Details	
AA	465m NE	TRANSFER FACILITY, FROG ISLAND, DAG, TRANSFER FACILITY, FROG ISLAND, DAGENHAM, KENT	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTLU.0749 Permit Version: 2 Receiving Water: UNDERGROUND STRATA	Status: VARIED UNDER EPR 2010 Issue date: 21/12/2012 Effective Date: 21/12/2012 Revocation Date: -
AA	465m NE	TRANSFER FACILITY, FROG ISLAND, DAG, TRANSFER FACILITY, FROG ISLAND, DAGENHAM, KENT	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTLU.0749 Permit Version: 1 Receiving Water: UNDERGROUND STRATA	Status: TRANSFERRED FROM WRA 1963 Issue date: 22/12/1981 Effective Date: 22/12/1981 Revocation Date: 20/12/2012
AC	470m SE	PLOT F, PLOT F, HEDSORBOARD FACTORY, ANDERSON WAY BELVEDERE, BEXLEY KENT	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: T02638 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 01/04/1991 Effective Date: 01/04/1991 Revocation Date: 31/03/1997
AC	470m SE	PLOT F, HEDSORBOARD FACTORY, ANDERS, PLOT F, HEDSORBOARD FACTORY, AND, ERSON WAY, BELVEDERE, BEXLEY, KE, NT	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: CTWC.2336 Permit Version: 1 Receiving Water: BALANCING POND	Status: CONSENT REVOKED - DISCHARGE CEASED (SECTION 37(1)) Issue date: 31/03/1988 Effective Date: 31/03/1988 Revocation Date: 23/05/2006
AD	477m SW	Thames Mead 2, Thames Mead 2	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.2062 Permit Version: 2 Receiving Water: Great Breach Dyke	Status: SURRENDERED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 19/08/2014
AD	477m SW	Thames Mead 2, Thames Mead 2	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: TEMP.2062 Permit Version: 1 Receiving Water: GREAT BREACH DYKE	Status: TEMPORARY CONSENTS (WATER ACT 1989, SECTION 113) Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 02/09/2010
AE	486m NE	TRANSFER FACILITY, FROG ISLAND, DAG, TRANSFER FACILITY, FROG ISLAND, DAGENHAM, KENT	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTLU.0750 Permit Version: 2 Receiving Water: GROUNDWATER	Status: VARIED UNDER EPR 2010 Issue date: 21/12/2012 Effective Date: 21/12/2012 Revocation Date: -



ID	Location	Address	Details	
AE	486m NE	TRANSFER FACILITY, FROG ISLAND, DAG, TRANSFER FACILITY, FROG ISLAND, DAGENHAM, KENT	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: CTLU.0750 Permit Version: 1 Receiving Water: GROUNDWATER	Status: TRANSFERRED FROM WRA 1963 Issue date: 22/12/1981 Effective Date: 22/12/1981 Revocation Date: 20/12/2012

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
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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	4
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Discharges of Special Category Effluents to the public sewer.

Features are displayed on the Current industrial land use map on [page 68 >](#)

ID	Location	Address	Details	
N	215m S	CRAY VALLEY LTD, CRABTREE MANORWAY SOUTH, CRABTREE MANORWAY SOUTH, BELVEDERE, KENT, DA17 6BA	Permission reference: AR6975 Local Authority: LONDON BOROUGH OF BEXLEY First received date: 01/07/2010	Last received date: 01/01/2018 Status: DEAD (APPLICATION)
Z	447m SE	NUFARM UK LTD, CRABTREE MANORWAY NORTH, CRABTREE MANORWAY NORTH, BELVEDERE, KENT, DA17 6BQ	Permission reference: AR0489 Local Authority: LONDON BOROUGH OF BEXLEY First received date: 01/06/2001	Last received date: 01/01/2018 Status: DEAD (APPLICATION)
Z	447m SE	BAYER AGRICULTURE LTD, CRABTREE MANORWAY NORTH, MANORWAY NORTH, BELVEDERE, KENT, DA17 6BQ	Permission reference: AE7970 Local Authority: LONDON BOROUGH OF BEXLEY First received date: 01/06/2001	Last received date: 01/01/2018 Status: DEAD (APPLICATION)
Z	447m SE	NUFARM UK LTD, CRABTREE MANORWAY NORTH, CRABTREE MANORWAY NORTH, BELVEDERE, KENT, DA17 6BQ	Permission reference: BY6265 Local Authority: LONDON BOROUGH OF BEXLEY First received date: 06/01/2005	Last received date: 01/01/2018 Status: DEAD (APPLICATION)

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



4.16 List 1 Dangerous Substances

Records within 500m

16

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.

Features are displayed on the Current industrial land use map on [page 68](#) >

ID	Location	Name	Status	Receiving Water	Authorised Substances
G	37m SW	Rhone Poulenc Rainham Road Dagenham	Not Active	-	-
G	37m SW	Rhone Poulenc Rainham Road Dagenham	Not Active	-	-
G	37m SW	Rhone-poulenc Ltd	Active	Thames Estuary	Mercury (other), Cadmium
L	200m NW	Crossness Stw	Active	-	-
L	200m NW	Crossness Stw	Active	-	-
L	200m NW	Crossness Stw	Active	Thames Estuary	Mercury (other), Cadmium, 1,2-dichloroethane
L	200m NW	Crossness Stw	Not Active	-	-
L	203m NW	Spectrum Oil Colours Ltd, 259 Queen's Road, Wimbledon, Sw19	Active	-	Cadmium
L	203m NW	Adm Erith Ltd, Erith, Kent, Da8 1dl	Active	-	Mercury (other)
R	373m SE	Nufarm Uk Ltd, Belvedere, Kent	Active	-	Mercury (other)
U	377m NW	Ford Motor Company Dagenham Essex	Not Active	-	-
U	377m NW	Ford Motor Company Dagenham Essex	Not Active	-	-
U	377m NW	Ford Motor Company Dagenham Essex	Not Active	-	-
U	377m NW	Ford Motor Company Dagenham Essex	Not Active	-	-
U	377m NW	Ford Motor Company Ltd	Active	Thames Estuary	Mercury (other), Cadmium, Pentachlorophenol
U	377m NW	Ford Motor Co Ltd, Dagenham, Rm9 6sa	Active	-	Mercury (other), Cadmium

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



4.17 List 2 Dangerous Substances

Records within 500m

36

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.

Features are displayed on the Current industrial land use map on [page 68](#) >

ID	Location	Name	Status	Receiving Water	Authorised Substances
L	203m NW	J & A Plating Ltd, 5 Wandle Way, Mitcham	Not Active	-	Chromium, Copper, Nickel
L	203m NW	Douglas Metal Finishing, 58 Juno Way, Deptford	Active	-	Chromium, Copper, Cyanide, Lead, Nickel, Zinc
L	203m NW	Nufarm Uk Ld, Crabtree Manorway North, Belvedere	Not Active	-	Toluene
L	203m NW	Slade Green Plating Ltd, 180-188 Trundeys Rd, Deptford	Not Active	-	Chromium, Copper, Cyanide, Nickel, Zinc
L	203m NW	Henkel Ltd, Mulberry Way, Belvedere, Kent	Active	Thames Estuary	Chromium, Copper, Cyanide, Nickel, Zinc
L	203m NW	Ctl Componants, Falcon House, Deer Park Rd, London	Active	Thames Estuary	Zinc
L	203m NW	Fox Plating, Worsley Bridge Rd, London, Se26 5az	Active	Thames Estuary	Chromium, Copper, Cyanide, Nickel, Zinc
L	203m NW	European Colour (pigments) Ltd, Nathan Way, London, Se28 0ay	Not Active	Thames Estuary	Chromium, Copper, Cyanide, Lead, Nickel, Zinc
L	203m NW	Kleinwort Benson (guernsey) Ltd, Beddington Lane, Croydon	Active	Thames Estuary	Boron, Chromium
L	203m NW	Stone Foundaries Ltd, Woolwich Rd, Charlton	Active	-	Chromium, Copper, Cyanide, Lead, Nickel, Zinc
L	203m NW	Harmsworth Quays Printing Ltd, 1 Surrey Quays Rd, Rotherhith	Not Active	-	Phenol
L	203m NW	Selchp/onyx, Landmann Way, Lewisham, Se145rs	Active	-	Chromium, Copper, Lead, Nickel, Zinc
L	203m NW	London Chroming, 735 Old Kent Rd, Camberwell, London	Active	-	Chromium, Copper, Lead, Nickel, Zinc
L	203m NW	Mayer Parry Recycling Ltd	Active	-	Chromium, Copper, Lead, Zinc
L	203m NW	Rotoplas Ltd	Active	-	Chromium, Copper, Cyanide, Lead, Nickel, Zinc



ID	Location	Name	Status	Receiving Water	Authorised Substances
L	203m NW	Mr M Doyle	Active	-	Chromium, Copper, Lead, Nickel, Zinc
L	203m NW	The Radiator Centre (Mitcham)	Active	-	Copper, Lead, Zinc
L	203m NW	Reichhold Uk Ltd	Active	-	Xylene
L	203m NW	Purpose Powder Coatings Ltd	Active	-	Zinc
L	203m NW	G H Zeal Ltd	Active	-	Chromium, Copper, Cyanide, Lead, Nickel, Zinc
L	203m NW	Kings College, London	Active	-	Copper
L	203m NW	Cory Environmental Ltd	Active	-	Chromium, Copper, Lead, Nickel, Zinc
L	203m NW	S. Smith & Son	Active	-	Copper, Cyanide, Nickel
L	203m NW	Chivas Brothers Ltd	Active	-	Copper
L	203m NW	Veolia Es Selchp Ltd	Active	-	Chromium, Copper, Lead, Nickel, Zinc
L	203m NW	Spectrum Oil Colours Ltd	Active	-	Chromium, Lead
L	203m NW	Alcatel Submarine Networks Ltd	Active	-	Cyanide, Silver
L	203m NW	Tower Mint Ltd	Active	-	Chromium, Cyanide, Nickel, Silver
L	203m NW	Syral Uk Ltd	Not Active	-	Copper, Zinc
L	203m NW	Adm Erith Ltd	Not Active	-	-
L	203m NW	Endecotts Ltd	Active	-	Chromium, Copper, Lead, Nickel, Zinc
L	203m NW	Veolia Es (uk) Ltd	Active	-	Chromium, Copper, Lead, Nickel, Silver, Zinc
L	203m NW	Jura Spray Ltd	Active	-	Chromium, Copper, Lead, Nickel, Zinc
L	203m NW	Crossness Stw	Active	Thames Estuary	None Consented
L	209m NW	Crossness Stw	Active	Thames Estuary	-
U	377m NW	Ford Motor Company Ltd	Not Active	Thames Estuary	Tributyltin, Triphenyltin, Atrazine & Simazine

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



4.18 Pollution Incidents (EA/NRW)

Records within 500m

14

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 68](#) >

ID	Location	Details	
11	On site	Incident Date: 28/06/2005 Incident Identification: 324864 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 2 (Significant)
18	28m SW	Incident Date: 15/04/2005 Incident Identification: 306151 Pollutant: Organic Chemicals/Products Pollutant Description: Other Organic Chemical or Product	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
J	169m E	Incident Date: 23/09/2002 Incident Identification: 109889 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
J	169m E	Incident Date: 15/04/2005 Incident Identification: 305763 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
J	169m E	Incident Date: 21/04/2005 Incident Identification: 307105 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
L	203m NW	Incident Date: 21/06/2005 Incident Identification: 322163 Pollutant: Sewage Materials Pollutant Description: Final Effluent	Water Impact: Category 1 (Major) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
35	207m W	Incident Date: 16/12/2017 Incident Identification: 1573699 Pollutant: Sewage Materials Pollutant Description: Sludge	Water Impact: Category 1 (Major) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
L	209m NW	Incident Date: 25/08/2005 Incident Identification: 341280 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
M	216m E	Incident Date: 30/03/2005 Incident Identification: 302361 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
40	259m E	Incident Date: 08/02/2002 Incident Identification: 57342 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
V	380m SW	Incident Date: 07/11/2001 Incident Identification: 42757 Pollutant: Contaminated Water Pollutant Description: Vehicle and Plant Washings	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
V	380m SW	Incident Date: 07/11/2001 Incident Identification: 42757 Pollutant: Contaminated Water Pollutant Description: Vehicle and Plant Washings	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
44	426m E	Incident Date: 02/07/2003 Incident Identification: 170514 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
48	488m N	Incident Date: 17/07/2010 Incident Identification: 803099 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) 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

59

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.

Features are displayed on the Current industrial land use map on [page 68 >](#)

ID: B, Location: On site, Permit: BK0825IU
 Operator: Riverside Resource Recovery Limited
 Activity: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR.
 Address: RIVERSIDE RESOURCE RECOVERY NORMAN ROAD KENT DA17 6JY
 Sector: EfW, Sub-sector: EfW



Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Mercury	1kg	17.41kg

ID: B, Location: On site, Permit: BK0825IU
 Operator: Riverside Resource Recovery Limited
 Activity: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR.
 Address: RIVERSIDE RESOURCE RECOVERY NORMAN ROAD KENT DA17 6JY
 Sector: EfW, Sub-sector: EfW
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Particulate matter - PM2.5	1000kg	819.26kg

ID: B, Location: On site, Permit: BK0825IU
 Operator: Riverside Resource Recovery Limited
 Activity: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR.
 Address: RIVERSIDE RESOURCE RECOVERY NORMAN ROAD KENT DA17 6JY
 Sector: EfW, Sub-sector: EfW
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Chromium	10kg	42.63kg

ID: B, Location: On site, Permit: BK0825IU
 Operator: Riverside Resource Recovery Limited
 Activity: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR.
 Address: RIVERSIDE RESOURCE RECOVERY NORMAN ROAD KENT DA17 6JY
 Sector: EfW, Sub-sector: EfW
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Chlorine and inorganic chlorine compounds - as HCl	10000kg	11930.11kg



ID: B, Location: On site, Permit: BK0825IU
 Operator: Riverside Resource Recovery Limited
 Activity: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR.
 Address: RIVERSIDE RESOURCE RECOVERY NORMAN ROAD KENT DA17 6JY
 Sector EfW, Sub-sector: EfW
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Nickel	10kg	18.97kg

ID: B, Location: On site, Permit: BK0825IU
 Operator: Riverside Resource Recovery Limited
 Activity: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR.
 Address: RIVERSIDE RESOURCE RECOVERY NORMAN ROAD KENT DA17 6JY
 Sector EfW, Sub-sector: EfW
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Particulate matter - PM10	1000kg	1648.89kg

ID: B, Location: On site, Permit: BK0825IU
 Operator: Riverside Resource Recovery Limited
 Activity: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR.
 Address: RIVERSIDE RESOURCE RECOVERY NORMAN ROAD KENT DA17 6JY
 Sector EfW, Sub-sector: EfW
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Particulate matter - total	10000kg	6431.83kg

ID: B, Location: On site, Permit: BK0825IU
 Operator: Riverside Resource Recovery Limited
 Activity: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR.
 Address: RIVERSIDE RESOURCE RECOVERY NORMAN ROAD KENT DA17 6JY
 Sector EfW, Sub-sector: EfW
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Arsenic	1kg	1.54kg

ID: B, Location: On site, Permit: BK0825IU
Operator: Riverside Resource Recovery Limited
Activity: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR.
Address: RIVERSIDE RESOURCE RECOVERY NORMAN ROAD KENT DA17 6JY
Sector EfW, Sub-sector: EfW
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Sulphur oxides (SO2 and SO3) as SO2	100000kg	Below Reporting Threshold
Air	Carbon monoxide	100000kg	Below Reporting Threshold
Air	Nitrous oxide	10000kg	Below Reporting Threshold
Air	Anthracene	10kg	Below Reporting Threshold
Air	Lead	100kg	Below Reporting Threshold
Air	Non-methane volatile organic compounds (NMVOCs)	10000kg	Below Reporting Threshold
Air	Benzo(k)fluoranthene	1kg	Below Reporting Threshold
Air	Dioxins and furans (PCDDs/PCDFs) - as ITEQ	1e-5kg	Below Reporting Threshold
Air	Polychlorinated biphenyls (PCBs) - as WHO TEQ	1e-5kg	Below Reporting Threshold
Air	Benzo(a)pyrene	1kg	Below Reporting Threshold
Air	Naphthalene	100kg	Below Reporting Threshold
Air	Polychlorinated biphenyls (PCBs)	0.1kg	Below Reporting Threshold
Air	Benzo(b)fluoranthene	1kg	Below Reporting Threshold

ID: B, Location: On site, Permit: BK0825IU
Operator: Riverside Resource Recovery Limited
Activity: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR.
Address: RIVERSIDE RESOURCE RECOVERY NORMAN ROAD KENT DA17 6JY
Sector EfW, Sub-sector: EfW
Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Copper	10kg	12.6kg

ID: B, Location: On site, Permit: BK0825IU
 Operator: Riverside Resource Recovery Limited
 Activity: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR.
 Address: RIVERSIDE RESOURCE RECOVERY NORMAN ROAD KENT DA17 6JY
 Sector: EfW, Sub-sector: EfW
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Dioxins and furans (PCDDs/PCDFs) - as WHO TEQ	1e-5kg	2e-5kg

ID: B, Location: On site, Permit: BK0825IU
 Operator: Riverside Resource Recovery Limited
 Activity: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR.
 Address: RIVERSIDE RESOURCE RECOVERY NORMAN ROAD KENT DA17 6JY
 Sector: EfW, Sub-sector: EfW
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Fluorine and inorganic fluorine compounds - as HF	1000kg	1278.5kg

ID: B, Location: On site, Permit: BK0825IU
 Operator: Riverside Resource Recovery Limited
 Activity: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR.
 Address: RIVERSIDE RESOURCE RECOVERY NORMAN ROAD KENT DA17 6JY
 Sector: EfW, Sub-sector: EfW
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Nitrogen oxides (NO and NO2) as NO2	100000kg	829325.2kg



ID: B, Location: On site, Permit: BK0825IU
 Operator: Riverside Resource Recovery Limited
 Activity: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR.
 Address: RIVERSIDE RESOURCE RECOVERY NORMAN ROAD KENT DA17 6JY
 Sector EfW, Sub-sector: EfW
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Cadmium	1kg	2.13kg

ID: B, Location: On site, Permit: BK0825IU
 Operator: Riverside Resource Recovery Limited
 Activity: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR.
 Address: RIVERSIDE RESOURCE RECOVERY NORMAN ROAD KENT DA17 6JY
 Sector EfW, Sub-sector: EfW
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Ammonia	1000kg	2543.2kg

ID: B, Location: On site, Permit: BK0825IU
 Operator: Riverside Resource Recovery Limited
 Activity: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR.
 Address: RIVERSIDE RESOURCE RECOVERY NORMAN ROAD KENT DA17 6JY
 Sector EfW, Sub-sector: EfW
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon dioxide	10000000kg	766070980kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Asbestos	0.1kg	19.7kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Naphthalene	100kg	Below Reporting Threshold
Air	Nitrous oxide	10000kg	Below Reporting Threshold
Air	Carbon tetrachloride (Tetrachloromethane)	10kg	Below Reporting Threshold
Air	Dichloromethane (DCM) (Methylene chloride)	1000kg	Below Reporting Threshold

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Methane	10000kg	130000kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Chromium	20kg	39.4kg



ID: K, Location: 173m W, Permit: CSSA.0362
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Indeno(1,2,3-cd)pyrene	1kg	11.2kg

ID: K, Location: 173m W, Permit: CSSA.0362
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Nickel	20kg	1320kg

ID: K, Location: 173m W, Permit: CSSA.0362
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Benzo(b)fluoranthene	1kg	5.3kg

ID: K, Location: 173m W, Permit: CSSA.0362
Operator: THAMES WATER UTILITIES LTD
Activity: -
Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
Sector Water Industry, Sub-sector: Water Industry
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Cyanides - as CN	50kg	364kg



ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Cadmium	1kg	27.9kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Nitrogen - as total N	50000kg	5130000kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Fluorides - as F	2000kg	55800kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Chlorides - as Cl	2000000kg	19600000kg



ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Benzo(g,h,i)perylene	0.1kg	3.07kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Nonylphenols and nonylphenol ethoxylates	1kg	628kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Carbon tetrachloride (Tetrachloromethane)	1kg	1.43kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Dioxins and furans (PCDDs/PCDFs) - as WHO TEQ	0.0001kg	0.000498kg



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Dioxins and furans (PCDDs/PCDFs) - as ITEQ	0.0001kg	0.000498kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Diuron	0.05kg	19.3kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Mercury	0.1kg	6.45kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Halogenated organic compounds - as AOX	1000kg	26500kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Fluoranthene	0.1kg	1.96kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Arsenic	5kg	82.3kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Tributyltin and compounds - as TBT	0.005kg	0.169kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Brominated diphenylethers - penta-, octa- and deca- BDE	0.1kg	0.42kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Phenols - total as C	20kg	81.4kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Organotin compounds - as Sn	5kg	12.7kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon dioxide	10000000kg	84000000kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Chloroform (Trichloromethane)	5kg	22.9kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Anthracene	0.1kg	9.48kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Di(2-ethylhexyl)phthalate (DEHP)	0.1kg	455kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Naphthalene	1kg	261kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Lead	20kg	267kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Ammonia	1000kg	7500kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Dichloromethane (DCM) (Methylene chloride)	10kg	37kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Octylphenols and octylphenol ethoxylates	1kg	3.94kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Benzo(k)fluoranthene	1kg	4.25kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Benzo(a)pyrene	1kg	8.64kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Total organic carbon (TOC)	50000kg	3220000kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Chloroform (Trichloromethane)	100kg	150kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Copper	20kg	3360kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Phosphorus - as total P	5000kg	651000kg

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Zinc	100kg	10500kg

ID: AB, Location: 468m NE, Permit: ZP3533BS
 Operator: Renewi UK Services Limited
 Activity: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT
 Address: Frog Island Waste Management Facility Creek Way Essex RM13 8EN
 Sector: Biowaste Treatment, Sub-sector: Biowaste Treatment
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Ammonia	1000kg	1970kg

ID: AB, Location: 468m NE, Permit: ZP3533BS
 Operator: Renewi UK Services Limited
 Activity: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT
 Address: Frog Island Waste Management Facility Creek Way Essex RM13 8EN
 Sector: Biowaste Treatment, Sub-sector: Biowaste Treatment
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Mercury	0.1kg	Below Reporting Threshold
Wastewater	Nickel	20kg	Below Reporting Threshold
Wastewater	Zinc	100kg	Below Reporting Threshold
Air	Particulate matter - total	10000kg	Below Reporting Threshold



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Cyanides - as CN	50kg	Below Reporting Threshold
Wastewater	Nitrogen - as total N	50000kg	Below Reporting Threshold
Wastewater	Phenols - total as C	20kg	Below Reporting Threshold
Wastewater	Phosphorus - as total P	5000kg	Below Reporting Threshold
Wastewater	Arsenic	5kg	Below Reporting Threshold
Wastewater	Cadmium	1kg	Below Reporting Threshold
Wastewater	Chromium	20kg	Below Reporting Threshold
Wastewater	Copper	20kg	Below Reporting Threshold
Wastewater	Lead	20kg	Below Reporting Threshold
Air	Non-methane volatile organic compounds (NMVOCs)	10000kg	Below Reporting Threshold

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

4.20 Pollution inventory waste transfers

Records within 500m

3

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.

Features are displayed on the Current industrial land use map on [page 68 >](#)

ID: B, Location: On site, Permit: BK0825IU
 Operator: Riverside Resource Recovery Limited
 Activity: THE INCINERATION OF NON-HAZARDOUS WASTE IN AN INCINERATION OR CO-INCINERATION PLANT WITH A CAPACITY EXCEEDING 3 TONNES PER HOUR.
 Address: RIVERSIDE RESOURCE RECOVERY NORMAN ROAD KENT DA17 6JY
 Sector: EfW, Sub-sector: EfW
 Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R4	Recycling/reclamation of metals and metal compounds	169426.38	absolute value	19 01 12	bottom ash and slag other than those mentioned in 19 01 11	No



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	10355.8	absolute value	19 01 07	solid wastes from gas treatment	Yes
R5	Recycling/reclamation of other inorganic materials	9616.9	absolute value	19 01 07	solid wastes from gas treatment	Yes

ID: K, Location: 173m W, Permit: CSSA.0362
 Operator: THAMES WATER UTILITIES LTD
 Activity: -
 Address: Crossness Sewage Treatment Works Belvedere Road London Greater London SE2 9AQ
 Sector: Water Industry, Sub-sector: Water Industry
 Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D1	Deposit into or onto land (eg landfill, etc.)	3458.81	absolute value	19 08 01	screenings	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	1958.5	absolute value	19 08 02	waste from desanding	No
R10	Land treatment resulting in benefit to agriculture or ecological improvement	20331.88	absolute value	19 08 05	sludges from treatment of urban waste water	No

ID: AB, Location: 468m NE, Permit: ZP3533BS
 Operator: Renewi UK Services Limited
 Activity: RECOVERY OR A MIX OF RECOVERY AND DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT
 Address: Frog Island Waste Management Facility Creek Way Essex RM13 8EN
 Sector: Biowaste Treatment, Sub-sector: Biowaste Treatment
 Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R1	Use principally as a fuel or other means to generate energy	99536	absolute value	19 12 10	combustible waste (refuse derived fuel)	No



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	10986	absolute value	19 12 10	combustible waste (refuse derived fuel)	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	13106	absolute value	19 12 12	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	No
R4	Recycling/reclamation of metals and metal compounds	1966.7	absolute value	19 12 02	ferrous metal	No
R5	Recycling/reclamation of other inorganic materials	4462	absolute value	19 12 05	glass	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	12719.4	absolute value	20 03 01	mixed municipal waste	No
D8	Biological treatment not specified elsewhere in this Table which results in final compounds or mixtures which are discarded by means of any of the operations numbers D1 to D12	21.54	absolute value	20 03 01	mixed municipal waste	No
R5	Recycling/reclamation of other inorganic materials	968.74	absolute value	20 02 02	soil and stones	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	189.8	absolute value	20 01 38	wood other than that mentioned in 20 01 37	No
R13	Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	3882.4	absolute value	20 03 07	bulky waste	No
R4	Recycling/reclamation of metals and metal compounds	864	absolute value	20 03 07	bulky waste	No
R4	Recycling/reclamation of metals and metal compounds	258.3	absolute value	19 12 03	non-ferrous metal	No



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	8030.2	absolute value	20 02 01	biodegradable waste	No
R5	Recycling/reclamation of other inorganic materials	1961.8	absolute value	20 03 03	street-cleaning residues	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	15.9	absolute value	16 01 03	end-of-life tyres	No
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	20.8	absolute value	17 05 04	soil and stones other than those mentioned in 17 05 03	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	112.5	absolute value	18 01 04	wastes whose collection and disposal is not subject to special requirements in order to prevent infection (for example dressings, plaster casts, linen, disposable clothing, diapers)	No
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	6.64	absolute value	18 01 07	chemicals other than those mentioned in 18 01 06	No
R4	Recycling/reclamation of metals and metal compounds	0.8	absolute value	16 06 05	other batteries and accumulators	No
R4	Recycling/reclamation of metals and metal compounds	7.8	absolute value	20 01 35	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components (6)	Yes
R4	Recycling/reclamation of metals and metal compounds	30.54	absolute value	20 01 23	discarded equipment containing chlorofluorocarbons	Yes
D15	Storage pending any of the operations numbered D1 to D14 (excluding temporary storage pending collection, on the site where it is produced)	13.8	absolute value	18 01 03	wastes whose collection and disposal is subject to special requirements in order to prevent infection	Yes



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

4.21 Pollution inventory radioactive waste

Records within 500m

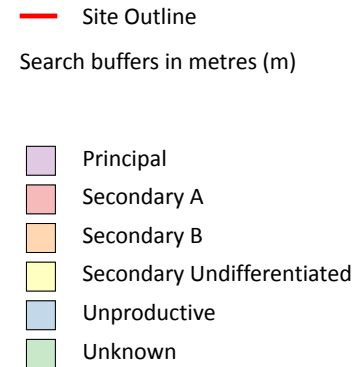
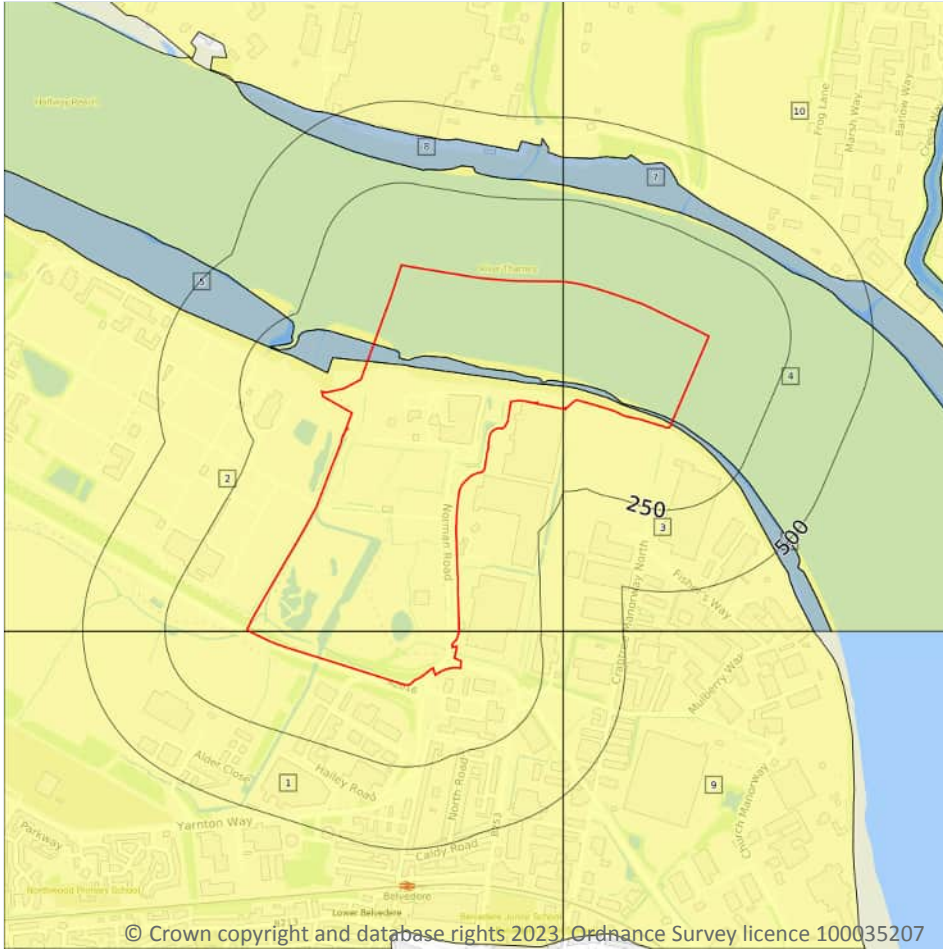
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The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for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

10

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 119 >](#)

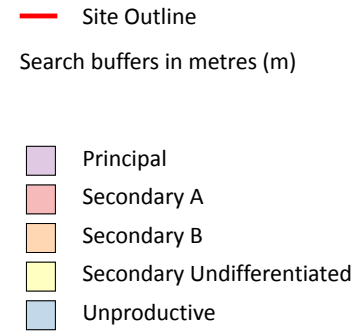
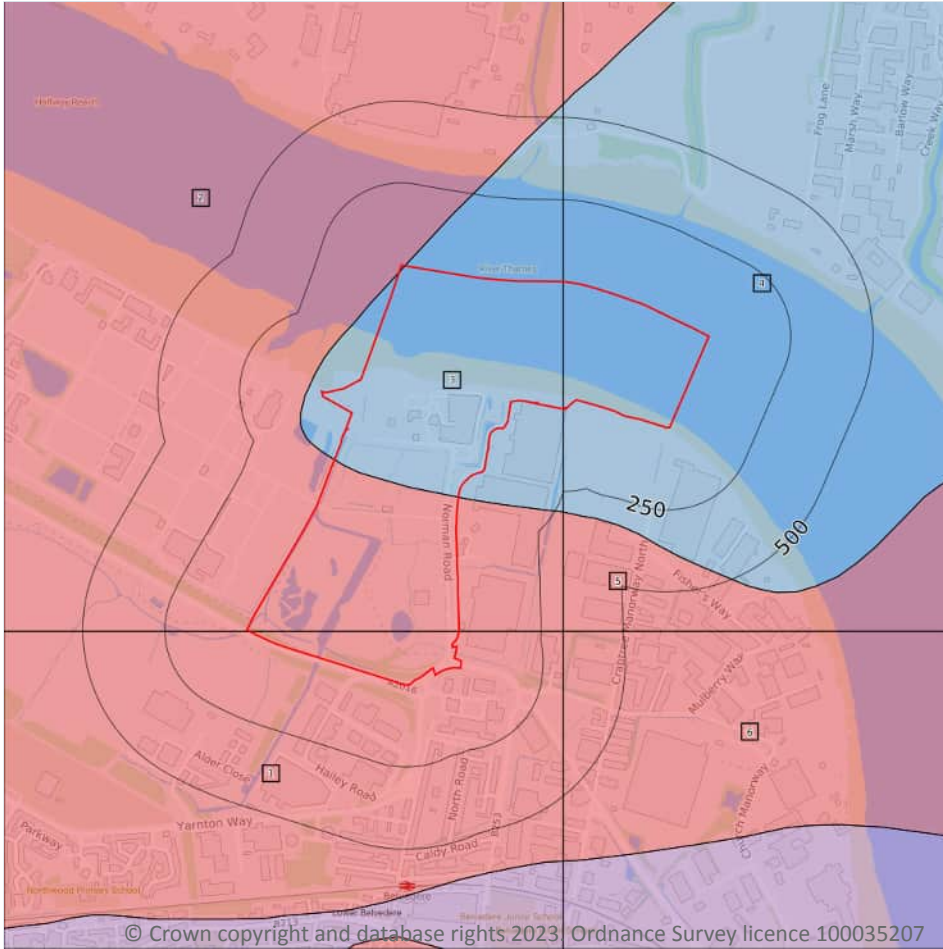
ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	On site	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



ID	Location	Designation	Description
3	On site	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	On site	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	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
6	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
7	285m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
8	295m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
9	311m 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
10	351m NE	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

6

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 121 >](#)

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

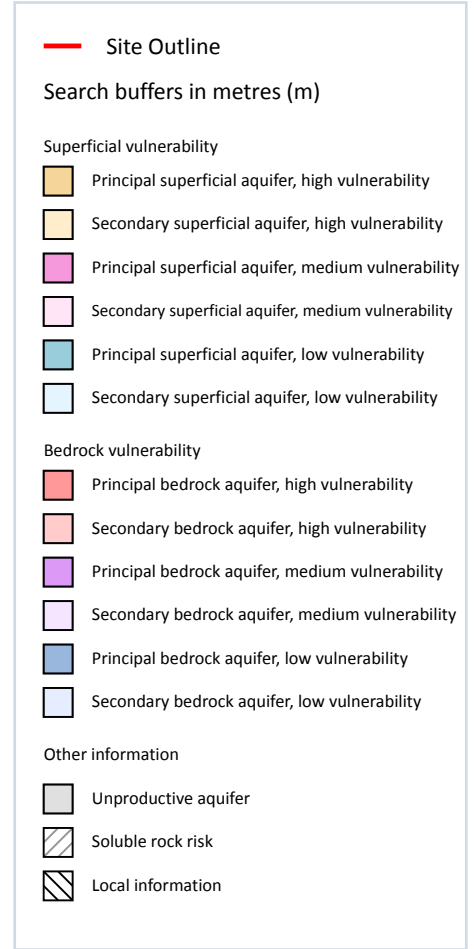
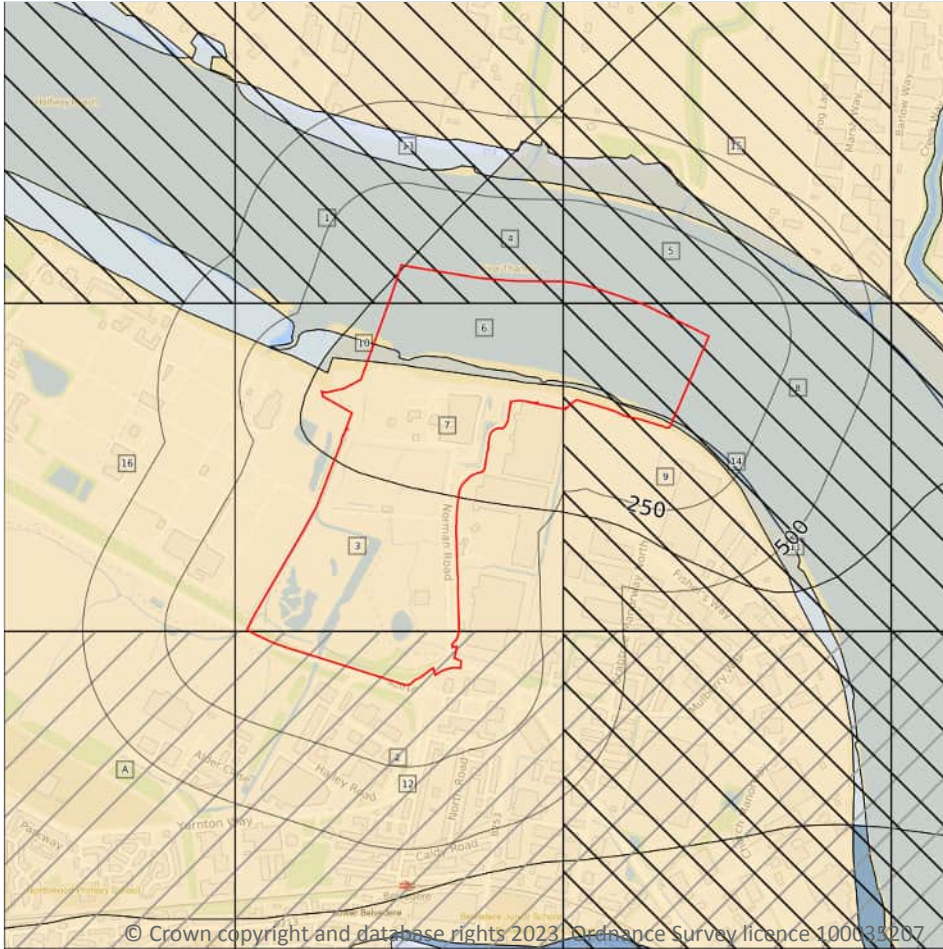


ID	Location	Designation	Description
3	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
4	On site	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
5	273m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
6	311m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor 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

13

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 123 >](#)

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Mixed
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Mixed
4	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed
5	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed
6	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
7	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed
8	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed
9	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Unproductive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed
10	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed
11	On site	Summary Classification: Unproductive aquifer (may have productive aquifer beneath) Combined classification: Unproductive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: No Data	Vulnerability: Unproductive Aquifer type: Unproductive Flow mechanism: Mixed
16	36m SW	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Mixed



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
A	36m SW	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: <300mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

ID	Maximum soluble risk category	Percentage of grid square covered by maximum risk
12	Very significant soluble rocks are likely to be present with a moderate possibility of localised natural subsidence or dissolution-related degradation of bedrock, especially in adverse conditions such as concentrated surface or subsurface water flow.	4.0%

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

5.5 Groundwater vulnerability- local information

Records on site	3
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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 ↗.

ID	Summary	Additional information
13	Potentially increased vulnerability of the bedrock aquifer due to limited cover by superficial deposits	Removal of, or limited cover of, superficial deposits within the River Thames
14	Potentially increased vulnerability of the bedrock aquifer due to limited cover by superficial deposits	Removal of, or limited cover of, superficial deposits within the River Thames
15	Potentially increased vulnerability of the bedrock aquifer due to limited cover by superficial deposits	Removal of, or limited cover of, superficial deposits within the River Thames

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



Abstractions and Source Protection Zones



5.6 Groundwater abstractions

Records within 2000m

20

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 127](#) >

ID	Location	Details	
1	On site	Status: Active Licence No: TH/039/0044/030 Details: Dewatering Direct Source: THAMES GROUNDWATER Point: THAMES AT BELVEDERE, LONDON Data Type: Poly4 Name: RIVERSIDE ENERGY PARK LIMITED Easting: 549416 Northing: 180774	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: NPS/WR/038060 Original Start Date: 27/03/2023 Expiry Date: 31/01/2025 Issue No: 1 Version Start Date: 27/03/2023 Version End Date: -
3	1027m SE	Status: Active Licence No: TH/039/0044/012 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: CHURCH MANORWAY, ERITH, KENT - BOREHOLE Data Type: Point Name: Tarmac Trading Limited Easting: 550733 Northing: 179679	Annual Volume (m ³): 40000 Max Daily Volume (m ³): 300 Original Application No: NPS/WR/038710 Original Start Date: 09/05/2013 Expiry Date: 31/03/2025 Issue No: 4 Version Start Date: 26/08/2022 Version End Date: -
B	1027m SE	Status: Historical Licence No: 28/39/44/0032 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: CHURCH MANORWAY, ERITH, KENT - BOREHOLE 'A' Data Type: Point Name: UNITED MARINE AGGREGATES LTD Easting: 550780 Northing: 179700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/12/1995 Expiry Date: 31/12/2004 Issue No: 101 Version Start Date: 01/04/2001 Version End Date: -
B	1027m SE	Status: Historical Licence No: 28/39/44/0048 Details: Mineral Washing Direct Source: THAMES GROUNDWATER Point: CHURCH MANORWAY, ERITH, KENT - BOREHOLE Data Type: Point Name: TARMAC LIMITED Easting: 550780 Northing: 179700	Annual Volume (m ³): 40000 Max Daily Volume (m ³): 300 Original Application No: - Original Start Date: 03/02/2005 Expiry Date: 31/03/2013 Issue No: 2 Version Start Date: 24/10/2012 Version End Date: -
-	1938m SE	Status: Active Licence No: 28/39/44/0035 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH, - BOREHOLE 'D' Data Type: Point Name: PRIMEREGAL LIMITED Easting: 550800 Northing: 178300	Annual Volume (m ³): 250000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 104 Version Start Date: 26/09/2008 Version End Date: -



ID	Location	Details	
-	1938m SE	Status: Historical Licence No: 28/39/44/0035 Details: General use relating to Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH, - BOREHOLE 'D' Data Type: Point Name: LANCASTER HOLDINGS LTD Easting: 550800 Northing: 178300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1996 Version End Date: -
-	1938m SE	Status: Historical Licence No: 28/39/44/0035 Details: Process water Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH, - BOREHOLE 'D' Data Type: Point Name: LANCASTER HOLDINGS LTD Easting: 550800 Northing: 178300	Annual Volume (m ³): 250000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 102 Version Start Date: 26/04/2004 Version End Date: -
-	1938m SE	Status: Historical Licence No: 28/39/44/0035 Details: General use relating to Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH, - BOREHOLE 'D' Data Type: Point Name: LANCASTER HOLDINGS LTD Easting: 550800 Northing: 178300	Annual Volume (m ³): 250000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 102 Version Start Date: 26/04/2004 Version End Date: -
-	1968m SE	Status: Active Licence No: 28/39/44/0035 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH - BOREHOLE 'B' Data Type: Point Name: PRIMEREGAL LIMITED Easting: 550700 Northing: 178200	Annual Volume (m ³): 250000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 104 Version Start Date: 26/09/2008 Version End Date: -



ID	Location	Details	
-	1968m SE	Status: Active Licence No: 28/39/44/0035 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH - BOREHOLE 'A' Data Type: Point Name: PRIMEREGAL LIMITED Easting: 550700 Northing: 178200	Annual Volume (m ³): 250000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 104 Version Start Date: 26/09/2008 Version End Date: -
-	1968m SE	Status: Active Licence No: 28/39/44/0035 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH, - BOREHOLE 'C' Data Type: Point Name: PRIMEREGAL LIMITED Easting: 550700 Northing: 178200	Annual Volume (m ³): 250000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 104 Version Start Date: 26/09/2008 Version End Date: -
-	1968m SE	Status: Historical Licence No: 28/39/44/0035 Details: General use relating to Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH - BOREHOLE 'A' Data Type: Point Name: LANCASTER HOLDINGS LTD Easting: 550700 Northing: 178200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1996 Version End Date: -
-	1968m SE	Status: Historical Licence No: 28/39/44/0035 Details: General use relating to Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH - BOREHOLE 'B' Data Type: Point Name: LANCASTER HOLDINGS LTD Easting: 550700 Northing: 178200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1996 Version End Date: -



ID	Location	Details	
-	1968m SE	Status: Historical Licence No: 28/39/44/0035 Details: General use relating to Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH, - BOREHOLE 'C' Data Type: Point Name: LANCASTER HOLDINGS LTD Easting: 550700 Northing: 178200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 100 Version Start Date: 16/12/1996 Version End Date: -
-	1968m SE	Status: Historical Licence No: 28/39/44/0035 Details: Process water Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH - BOREHOLE 'A' Data Type: Point Name: LANCASTER HOLDINGS LTD Easting: 550700 Northing: 178200	Annual Volume (m ³): 250000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 102 Version Start Date: 26/04/2004 Version End Date: -
-	1968m SE	Status: Historical Licence No: 28/39/44/0035 Details: Process water Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH - BOREHOLE 'B' Data Type: Point Name: LANCASTER HOLDINGS LTD Easting: 550700 Northing: 178200	Annual Volume (m ³): 250000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 102 Version Start Date: 26/04/2004 Version End Date: -
-	1968m SE	Status: Historical Licence No: 28/39/44/0035 Details: General use relating to Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH - BOREHOLE 'A' Data Type: Point Name: LANCASTER HOLDINGS LTD Easting: 550700 Northing: 178200	Annual Volume (m ³): 250000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 102 Version Start Date: 26/04/2004 Version End Date: -



ID	Location	Details	
-	1968m SE	Status: Historical Licence No: 28/39/44/0035 Details: Process water Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH, - BOREHOLE 'C' Data Type: Point Name: LANCASTER HOLDINGS LTD Easting: 550700 Northing: 178200	Annual Volume (m ³): 250000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 102 Version Start Date: 26/04/2004 Version End Date: -
-	1968m SE	Status: Historical Licence No: 28/39/44/0035 Details: General use relating to Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH - BOREHOLE 'B' Data Type: Point Name: LANCASTER HOLDINGS LTD Easting: 550700 Northing: 178200	Annual Volume (m ³): 250000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 102 Version Start Date: 26/04/2004 Version End Date: -
-	1968m SE	Status: Historical Licence No: 28/39/44/0035 Details: General use relating to Secondary Category (Medium Loss) Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH, - BOREHOLE 'C' Data Type: Point Name: LANCASTER HOLDINGS LTD Easting: 550700 Northing: 178200	Annual Volume (m ³): 250000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 102 Version Start Date: 26/04/2004 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

4

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 127 >](#)



ID	Location	Details	
A	On site	Status: Historical Licence No: 28/39/44/0041 Details: Make-Up Or Top Up Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: GREAT BREACH DYKE Data Type: Line Name: Thames Water Utilities Ltd Easting: 549258 Northing: 180374	Annual Volume (m³): 60000 Max Daily Volume (m³): 1500 Original Application No: NPS/WR/014881 Original Start Date: 29/10/1999 Expiry Date: - Issue No: 2 Version Start Date: 31/07/2014 Version End Date: -
A	5m W	Status: Historical Licence No: 28/39/44/0041 Details: General Use Relating To Secondary Category (High Loss) Direct Source: THAMES SURFACE WATER - NON TIDAL Point: GREAT BREACH DYKE AT CROSSNESS NATURE RESERVE Data Type: Line Name: THAMES WATER UTILITIES LTD Easting: 549320 Northing: 180590	Annual Volume (m ³): 30000 Max Daily Volume (m ³): 864 Original Application No: - Original Start Date: 29/10/1999 Expiry Date: - Issue No: 1 Version Start Date: 29/10/1999 Version End Date: -
2	832m N	Status: Historical Licence No: 08/37/55/0091 Details: Process Water Direct Source: THAMES SURFACE WATER - NON TIDAL Point: FORD MOTOR COMPANY ESTATE, DAGENHAM - RIVER BEAM Data Type: Point Name: Ford Motor Company Limited Easting: 549900 Northing: 181900	Annual Volume (m ³): 750000 Max Daily Volume (m ³): 2055 Original Application No: NPS/WR/032227 Original Start Date: 22/03/1994 Expiry Date: - Issue No: 102 Version Start Date: 16/08/2019 Version End Date: -
-	1699m N	Status: Historical Licence No: 08/37/55/0100 Details: Dust suppression Direct Source: THAMES SURFACE WATER - NON TIDAL Point: RIVER BEAM AT MANOR WAY, DAGENHAM. Data Type: Point Name: MORGAN EST PLC Easting: 550140 Northing: 182760	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/12/2002 Expiry Date: 31/12/2004 Issue No: 1 Version Start Date: 11/12/2002 Version End Date: -

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



5.8 Potable abstractions

Records within 2000m

4

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.

Features are displayed on the Abstractions and Source Protection Zones map on [page 127 >](#)

ID	Location	Details	
-	1938m SE	Status: Active Licence No: 28/39/44/0035 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH, - BOREHOLE 'D' Data Type: Point Name: PRIMEREGAL LIMITED Easting: 550800 Northing: 178300	Annual Volume (m ³): 250000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 104 Version Start Date: 26/09/2008 Version End Date: -
-	1968m SE	Status: Active Licence No: 28/39/44/0035 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH - BOREHOLE 'B' Data Type: Point Name: PRIMEREGAL LIMITED Easting: 550700 Northing: 178200	Annual Volume (m ³): 250000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 104 Version Start Date: 26/09/2008 Version End Date: -
-	1968m SE	Status: Active Licence No: 28/39/44/0035 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH - BOREHOLE 'A' Data Type: Point Name: PRIMEREGAL LIMITED Easting: 550700 Northing: 178200	Annual Volume (m ³): 250000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 104 Version Start Date: 26/09/2008 Version End Date: -



ID	Location	Details	
-	1968m SE	Status: Active Licence No: 28/39/44/0035 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: THAMES GROUNDWATER Point: EUROPA TRADING ESTATE, FRASER ROAD, ERITH, - BOREHOLE 'C' Data Type: Point Name: PRIMEREGAL LIMITED Easting: 550700 Northing: 178200	Annual Volume (m ³): 250000 Max Daily Volume (m ³): 2500 Original Application No: - Original Start Date: 16/12/1996 Expiry Date: - Issue No: 104 Version Start Date: 26/09/2008 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	0
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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.

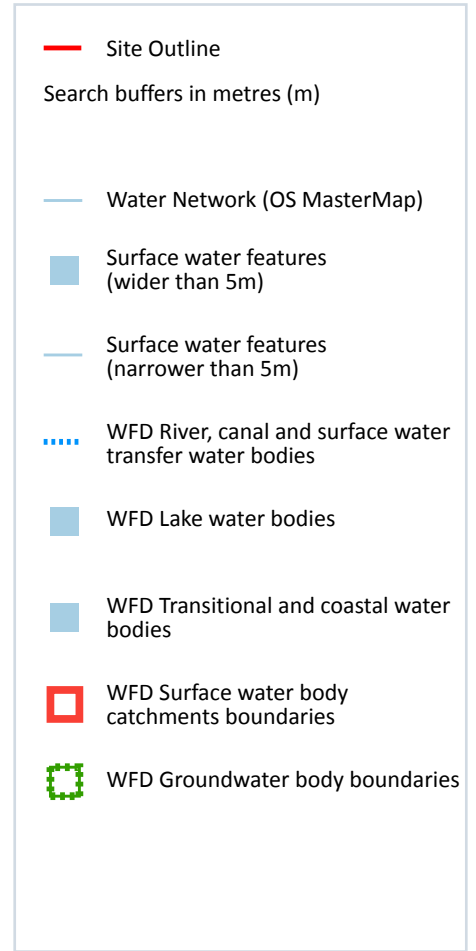
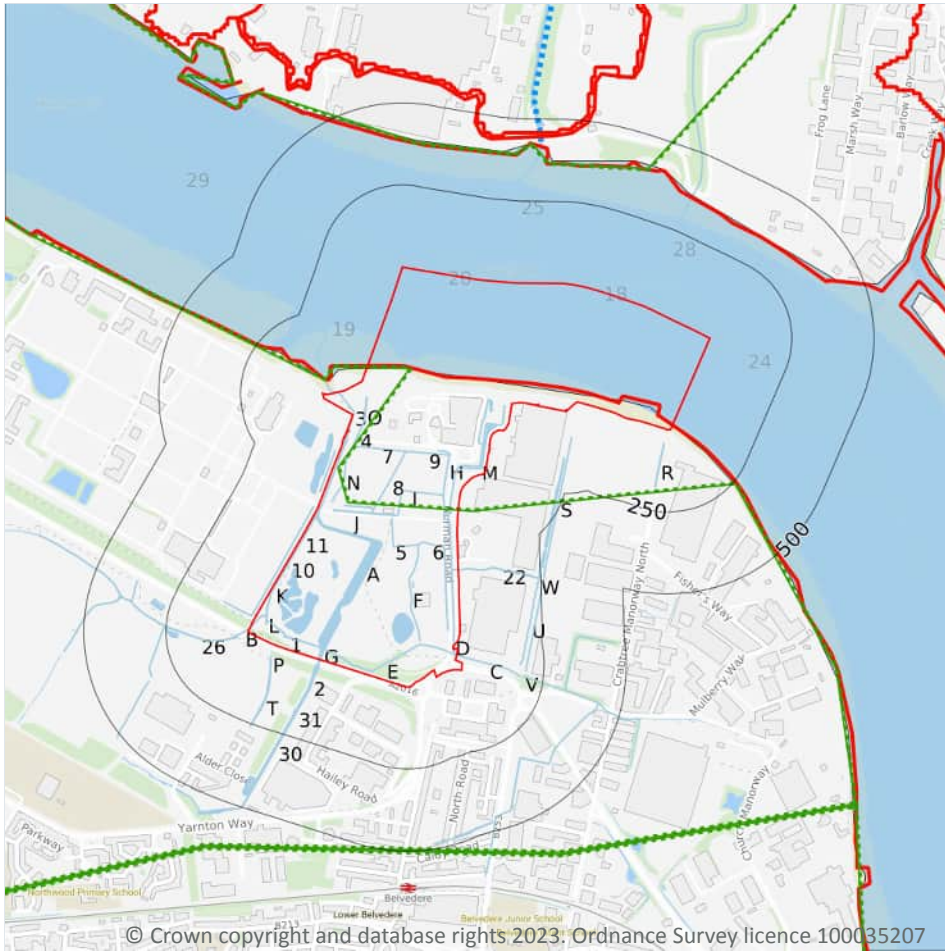
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0
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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

95

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 136 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
1	On site	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
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
4	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
8	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
9	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
10	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
11	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	On site	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
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
H	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	On site	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
L	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
N	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
O	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
18	On site	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Thames



ID	Location	Type of water feature	Ground level	Permanence	Name
19	6m NW	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
20	7m N	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Thames
K	11m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
22	11m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	11m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
24	13m NE	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Thames
25	15m NE	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	Beam River
P	33m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	36m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
26	37m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	37m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	40m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	46m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
P	50m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	77m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
S	79m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	80m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
28	100m NE	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
29	110m N	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Thames
S	139m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
30	171m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
31	171m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	175m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	179m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
U	194m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
V	200m S	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
W	244m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	245m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	246m SE	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

17

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 136 >](#)

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 136 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
E	On site	Coastal Catchment	Not part of a river WB catchment	128	Land area part of London Management Catchment draining to the Tidal Thames	London

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 136 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
17	On site	Transi	THAMES MIDDLE	GB530603911402 ↗	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
------------------------	----------

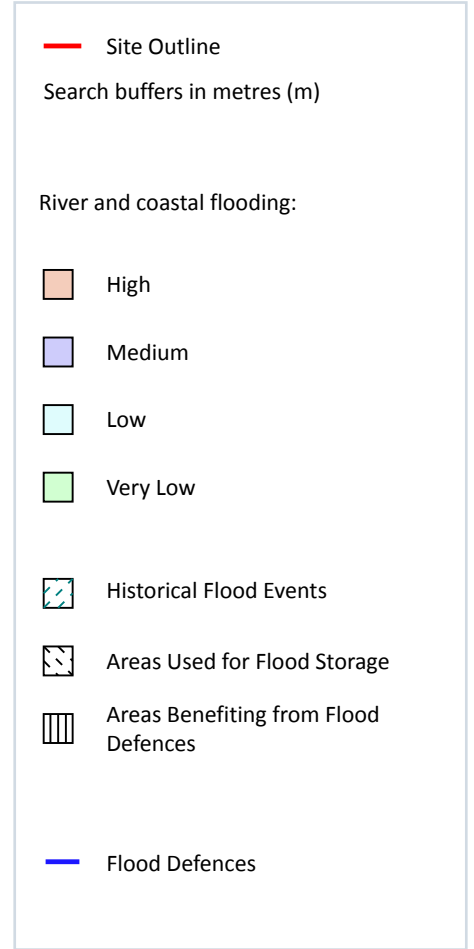
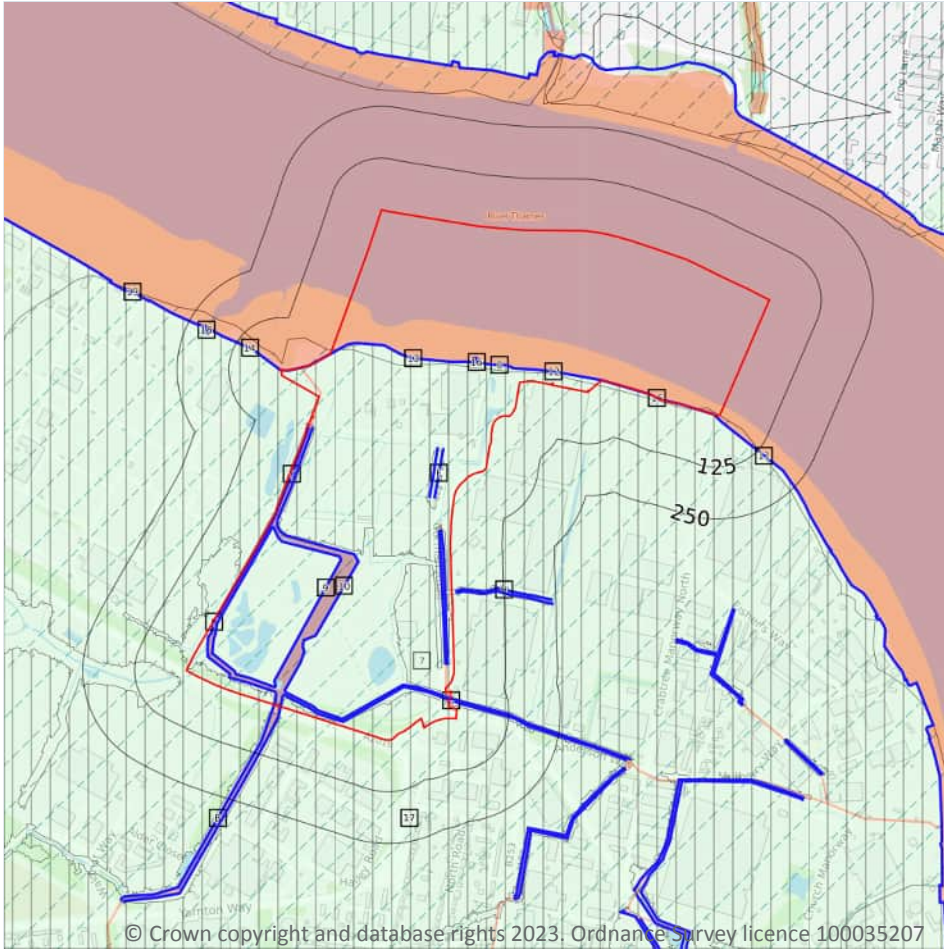
Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on [page 136 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
J	On site	Greenwich Tertiaries and Chalk	GB40602G602500 ↗	Poor	Poor	Poor	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

8

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 146 >](#)

Distance	Flood risk category
On site	High
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m	1
----------------------------	----------

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.

Features are displayed on the River and coastal flooding map on [page 146 >](#)

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
7	On site	Ttd_Feo_1953	1953-01-31 1953-02-01	Sea	Operational failure/breach of defence	Tidal

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

7.3 Flood Defences

Records within 250m	26
----------------------------	-----------

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.

Features are displayed on the River and coastal flooding map on [page 146 >](#)

ID	Location	Update
8	On site	08/11/2022
9	On site	08/11/2022
10	On site	08/11/2022
11	On site	08/11/2022
12	On site	08/11/2022



ID	Location	Update
13	On site	08/11/2022
14	On site	08/11/2022
15	On site	08/11/2022
16	On site	08/11/2022
A	On site	08/11/2022
A	On site	08/11/2022
B	On site	08/11/2022
B	On site	08/11/2022
C	On site	08/11/2022
C	On site	08/11/2022
D	On site	08/11/2022
D	On site	08/11/2022
E	On site	08/11/2022
E	On site	08/11/2022
F	On site	08/11/2022
F	On site	08/11/2022
G	On site	08/11/2022
H	9m S	08/11/2022
H	10m S	08/11/2022
18	191m NW	08/11/2022
19	225m NW	08/11/2022

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

7.4 Areas Benefiting from Flood Defences

Records within 250m

1

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.

Features are displayed on the River and coastal flooding map on [page 146 >](#)



ID	Location	
17	On site	Area benefiting from flood defences

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

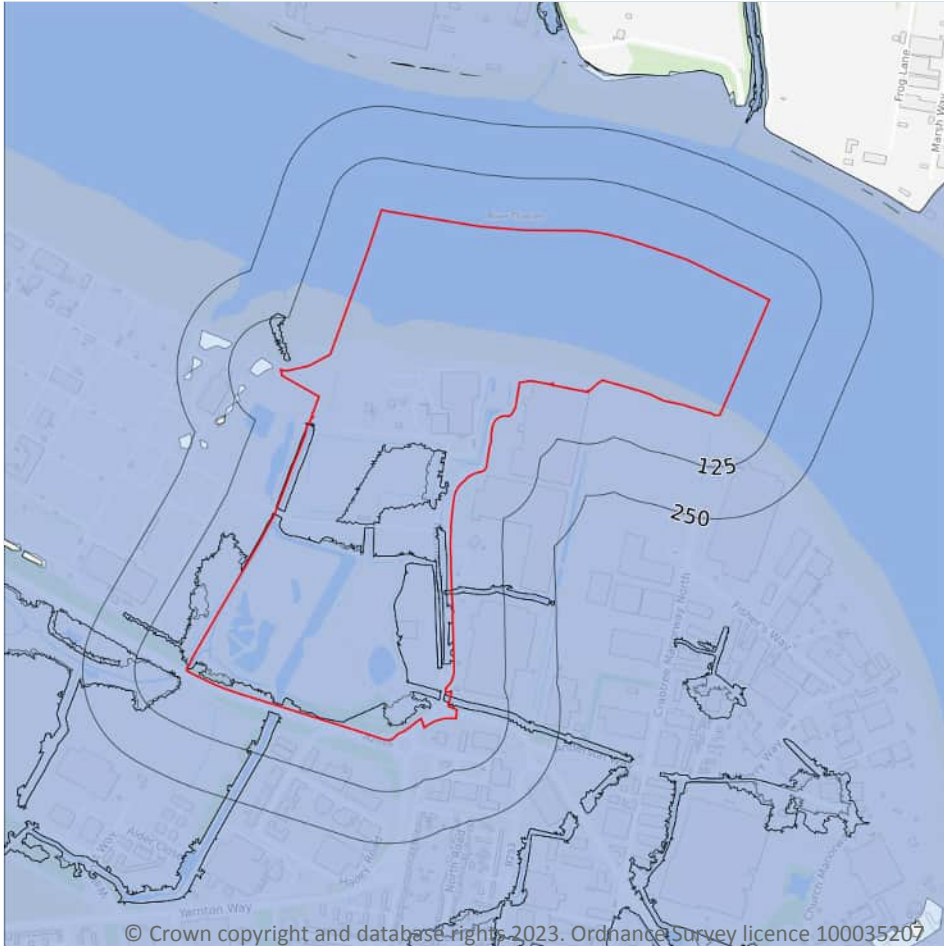
7.5 Flood Storage Areas

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



- Site Outline
- Search buffers in metres (m)
- Flood zone 2
- Flood zone 3

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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 146 >](#)

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.

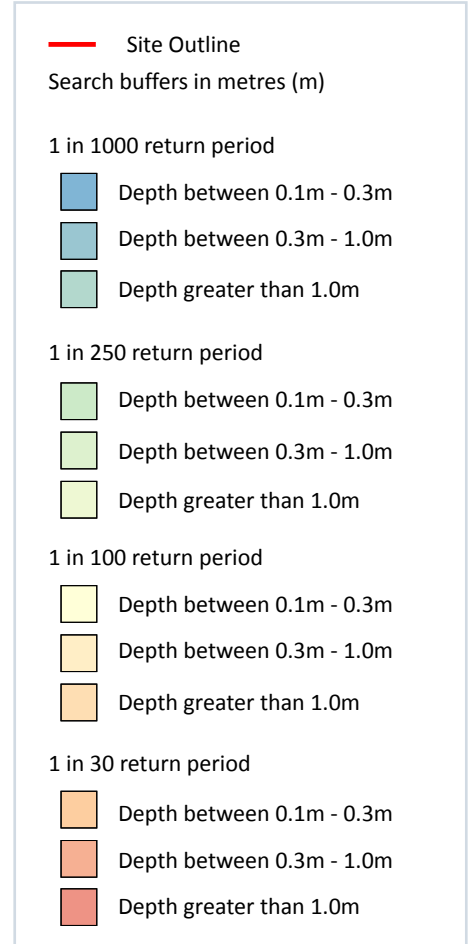
Features are displayed on the River and coastal flooding map on [page 146](#) >

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 152 >](#)

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	Between 0.3m and 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

Moderate

Highest risk within 50m

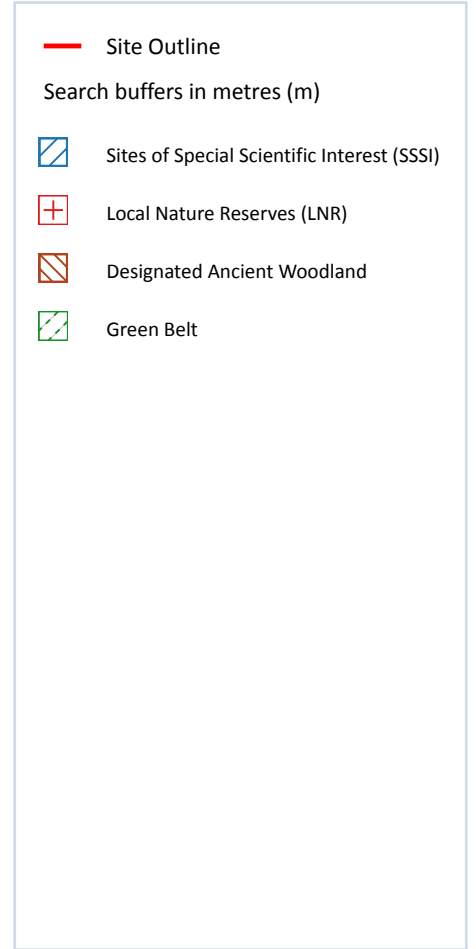
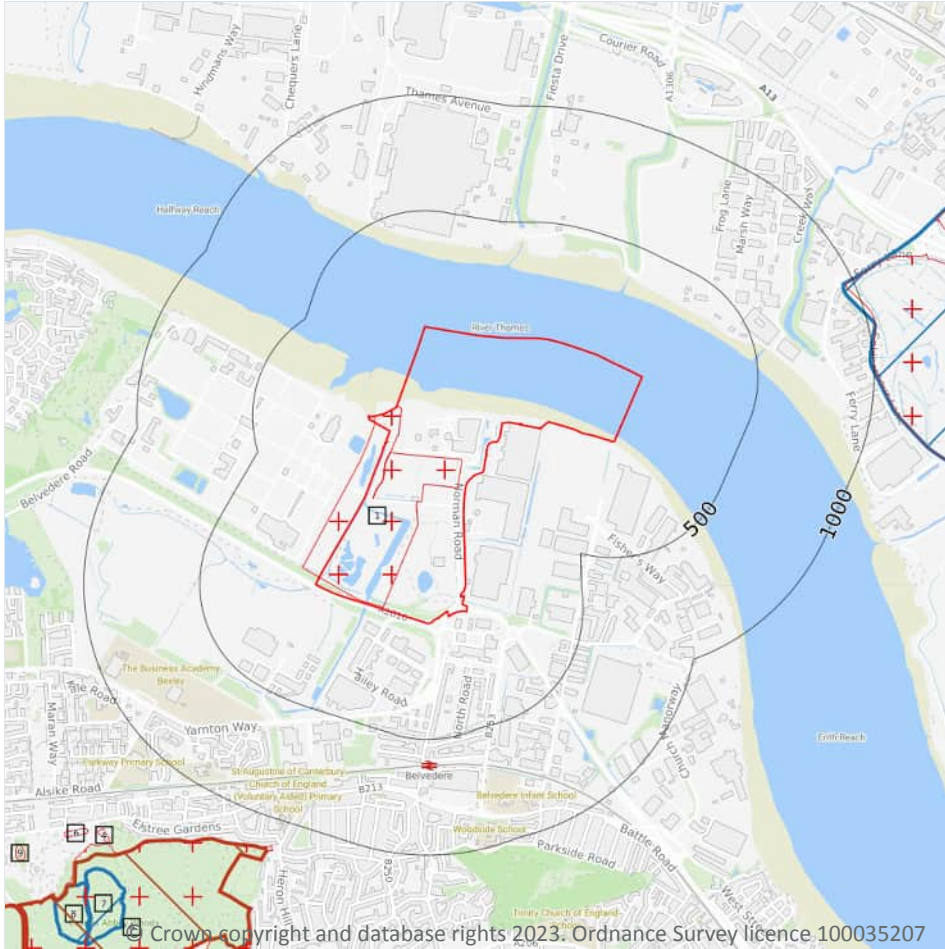
Moderate

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 154](#) >

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

3

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 155 >](#)

ID	Location	Name	Data source
2	947m NE	Inner Thames Marshes	Natural England



ID	Location	Name	Data source
7	1531m SW	Abbey Wood	Natural England
8	1628m SW	Abbey Wood	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

0

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.

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

0

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.

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

9

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 155 >](#)

ID	Location	Name	Data source
1	On site	Crossness	Natural England
3	963m NE	Rainham Marshes	Natural England
A	1116m SW	Lesnes Abbey Woods	Natural England
4	1397m SW	Lesnes Abbey Woods	Natural England
5	1438m NE	Rainham Marshes	Natural England
6	1445m SW	Lesnes Abbey Woods	Natural England
9	1699m SW	Lesnes Abbey Woods	Natural England
B	1899m SW	Lesnes Abbey Woods	Natural England
-	1958m SW	Lesnes Abbey Woods	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m

2

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 155 >](#)

ID	Location	Name	Woodland Type
A	1134m SW	Lesnes Abbey Woods	Ancient & Semi-Natural Woodland
B	1900m SW	Lesnes Abbey Woods	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
793m E	Southall Sewer and Runningwater Brook NVZ	Surface Water	802	Existing

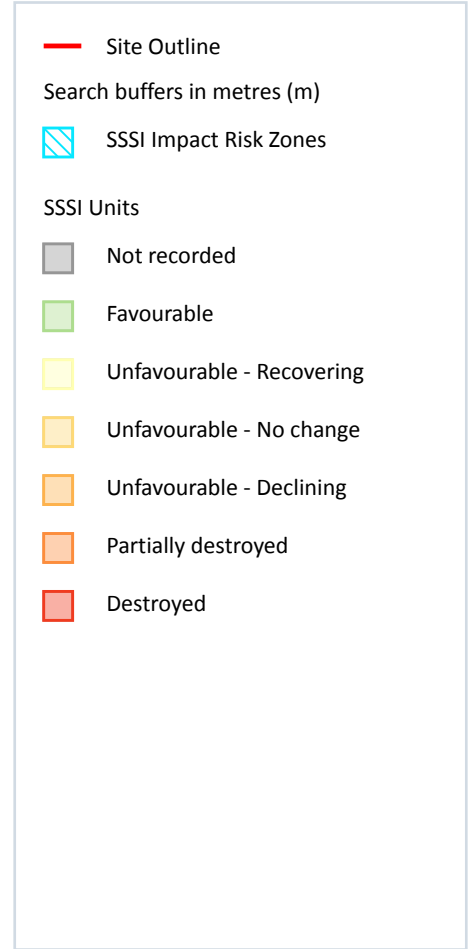
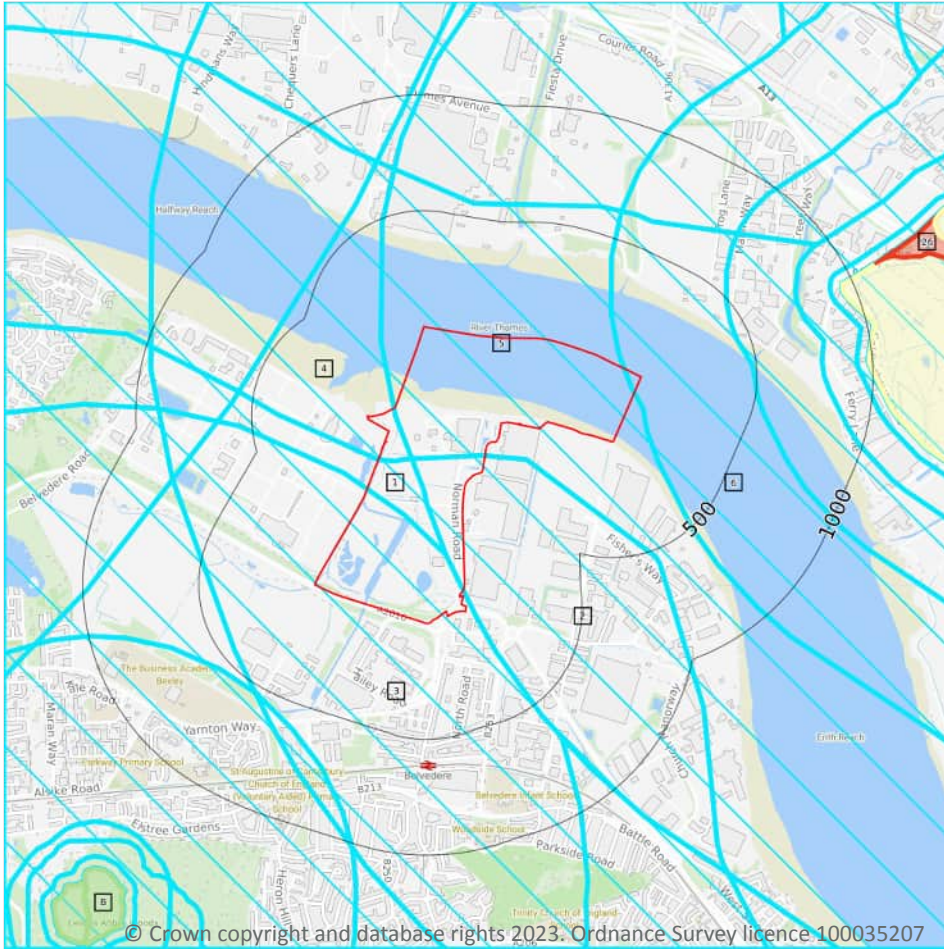


Location	Name	Type	NVZ ID	Status
947m NE	Ingrebourne NVZ	Surface Water	440	Existing

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

6

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 161](#) >

ID	Location	Type of developments requiring consultation
1	On site	<p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.</p> <p>Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p>
2	On site	<p>Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.</p> <p>Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha.</p> <p>Rural residential - Any residential development of 100 or more houses outside existing settlements/urban areas.</p> <p>Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t).</p> <p>Combustion - General combustion processes >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 75000 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 of more than 5m³/day 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 1,000m² or more.</p>
3	On site	<p>Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals.</p> <p>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction.</p> <p>Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.</p> <p>Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Discharges - Any discharge of water or liquid waste of more than 5m³/day 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 1,000m² or more.</p>

ID	Location	Type of developments requiring consultation
4	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 and underground cables, 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 > 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 & gas exploration/extraction.</p> <p>Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha</p> <p>Residential - Residential development of 10 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 - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t.</p> <p>Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill.</p> <p>Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.</p>
5	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 and underground cables, 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 > 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 & gas exploration/extraction.</p> <p>Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha</p> <p>Residential - Residential development of 10 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 & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t).</p> <p>Combustion - General combustion processes >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 75000 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 of more than 5m³/day 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 1,000m² or more.</p>



ID	Location	Type of developments requiring consultation
6	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 and underground cables, 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 > 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 & gas exploration/extraction.</p> <p>Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha</p> <p>Residential - Residential development of 10 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 & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t).</p> <p>Combustion - General combustion processes >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 of more than 2m³/day 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 net additional gross internal floorspace is > 1,000m² or any development needing its own water supply</p>

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

6

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 161](#) >

ID: 23
 Location: 947m NE
 SSSI name: Inner Thames Marshes
 Unit name: Rainham Marsh South Of A13
 Broad habitat: Neutral Grassland - Lowland
 Condition: Unfavourable - Recovering
 Reportable features:



Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Lowland damp grasslands	Unfavourable - Recovering	19/08/2022

ID: 26
 Location: 1159m NE
 SSSI name: Inner Thames Marshes
 Unit name: Rainham Central Grassland
 Broad habitat: Neutral Grassland - Lowland
 Condition: Destroyed
 Reportable features:

Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Lowland damp grasslands	Destroyed	19/08/2022
Invert. assemblage W211 open water on disturbed sediments	Destroyed	19/08/2022
Invert. assemblage W314 reed-fen & pools	Destroyed	19/08/2022
Vascular plant assemblage	Destroyed	19/08/2022

ID: 30
 Location: 1421m NE
 SSSI name: Inner Thames Marshes
 Unit name: Rainham Rifle Ranges
 Broad habitat: Neutral Grassland - Lowland
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Teal, Anas crecca	Favourable	24/03/2022
Assemblages of breeding birds - Lowland damp grasslands	Favourable	01/10/2010
Invert. assemblage W211 open water on disturbed sediments	Unfavourable - Recovering	01/10/2010
Invert. assemblage W314 reed-fen & pools	Unfavourable - Recovering	01/10/2010
Vascular plant assemblage	Unfavourable - Recovering	01/10/2010



ID: -
 Location: 1486m E
 SSSI name: Inner Thames Marshes
 Unit name: Pla Silt Lagoons
 Broad habitat: Littoral Sediment
 Condition: Unfavourable - Declining
 Reportable features:

Feature name	Feature condition	Date of assessment
Aggregations of non-breeding birds - Teal, <i>Anas crecca</i>	Favourable	24/03/2022
Assemblages of breeding birds - Lowland damp grasslands	Unfavourable - Declining	27/10/2010

ID: B
 Location: 1531m SW
 SSSI name: Abbey Wood
 Unit name: Whole Site
 Broad habitat: Earth Heritage
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
FB - Aves	Favourable	05/09/2011
FB - Mesozoic - Tertiary Fish/Amphibia	Favourable	05/09/2011
FB - Tertiary Mammalia	Favourable	05/09/2011

ID: B
 Location: 1628m SW
 SSSI name: Abbey Wood
 Unit name: Whole Site
 Broad habitat: Earth Heritage
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
FB - Aves	Favourable	05/09/2011
FB - Mesozoic - Tertiary Fish/Amphibia	Favourable	05/09/2011
FB - Tertiary Mammalia	Favourable	05/09/2011

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

0

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.

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

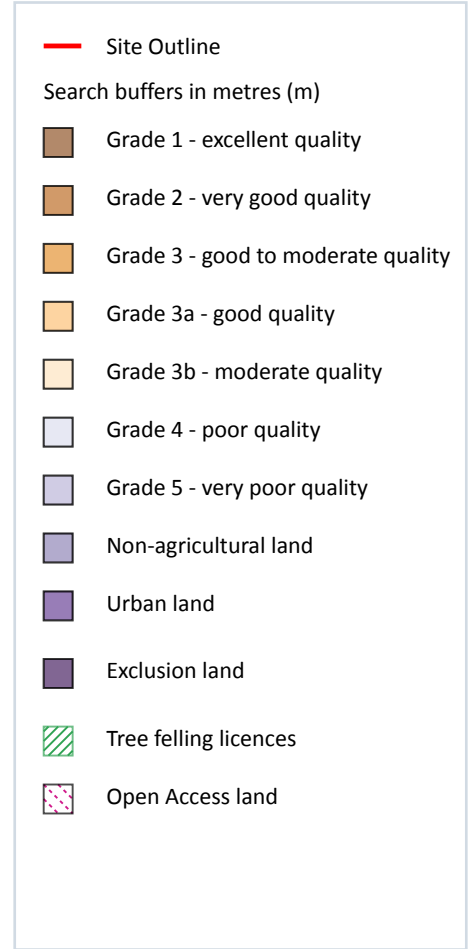
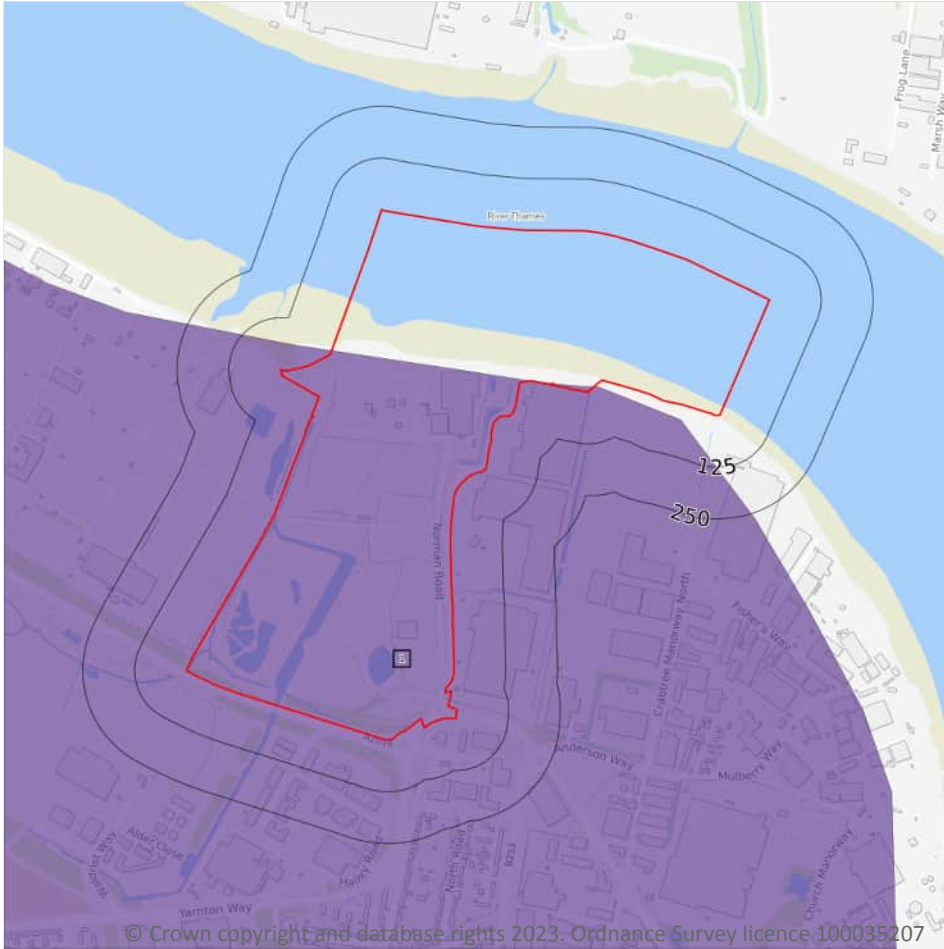
0

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 169](#) >

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

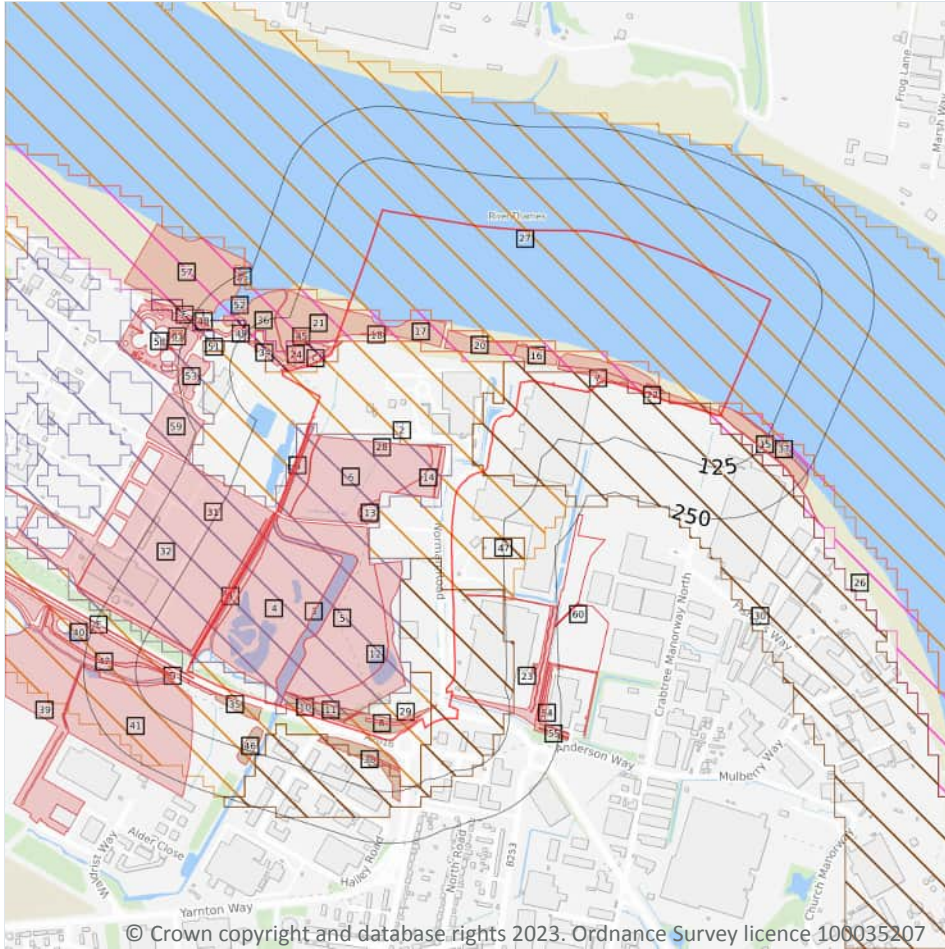
0

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.

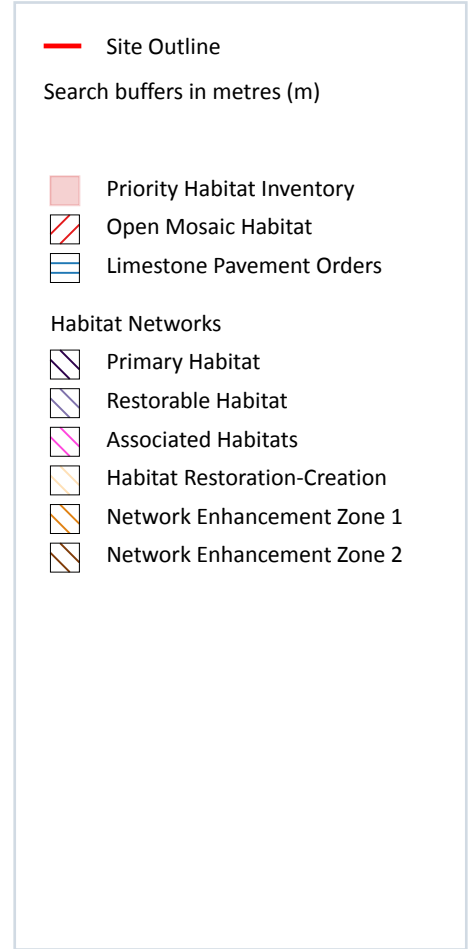
This data is sourced from Natural England.



13 Habitat designations



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13.1 Priority Habitat Inventory

Records within 250m

57

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 171 >](#)

ID	Location	Main Habitat	Other habitats
1	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
2	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
3	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); GQSIG (INV > 50%)
4	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); GQSIG (INV > 50%)



ID	Location	Main Habitat	Other habitats
5	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); GQSIG (INV > 50%)
6	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); GQSIG (INV > 50%)
7	On site	Coastal saltmarsh	Main habitat: SALTM (INV > 50%)
8	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
12	On site	Good quality semi-improved grassland	Main habitat: GQSIG (INV > 50%)
13	On site	Good quality semi-improved grassland	Main habitat: GQSIG (INV > 50%)
14	On site	Good quality semi-improved grassland	Main habitat: GQSIG (INV > 50%)
15	On site	Mudflats	Main habitat: MUDFL (INV > 50%)
16	On site	Mudflats	Main habitat: MUDFL (INV > 50%)
17	On site	Mudflats	Main habitat: MUDFL (INV > 50%)
18	On site	Mudflats	Main habitat: MUDFL (INV > 50%)
19	On site	Mudflats	Main habitat: MUDFL (INV > 50%)
20	On site	Mudflats	Main habitat: MUDFL (INV > 50%)
21	On site	Mudflats	Main habitat: MUDFL (INV > 50%)
22	On site	No main habitat but additional habitats present	Additional: MUDFL (INV 50%)
23	On site	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)
A	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
B	On site	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%); GQSIG (INV > 50%)
B	On site	Good quality semi-improved grassland	Main habitat: GQSIG (INV > 50%)
C	On site	Coastal saltmarsh	Main habitat: SALTM (INV > 50%)
A	1m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
32	4m W	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
33	5m NW	Coastal saltmarsh	Main habitat: SALTM (INV > 50%)
E	8m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
C	10m NW	Coastal saltmarsh	Main habitat: SALTM (INV > 50%)



ID	Location	Main Habitat	Other habitats
34	12m NW	Coastal saltmarsh	Main habitat: SALTM (INV > 50%)
35	17m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
E	18m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
36	21m NW	Mudflats	Main habitat: MUDFL (INV > 50%)
37	26m E	Mudflats	Main habitat: MUDFL (INV > 50%)
38	28m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
D	34m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
39	36m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
40	40m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
41	43m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
42	43m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
43	43m SW	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
44	47m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
46	65m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
49	125m NW	Coastal saltmarsh	Main habitat: SALTM (INV > 50%)
50	137m NW	Coastal saltmarsh	Main habitat: SALTM (INV > 50%)
53	174m W	Good quality semi-improved grassland	Main habitat: GQSIG (INV > 50%)
54	188m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
55	200m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
56	200m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
F	204m NW	Coastal saltmarsh	Main habitat: SALTM (INV > 50%)
57	207m NW	Mudflats	Main habitat: MUDFL (INV > 50%)
F	207m NW	Good quality semi-improved grassland	Main habitat: GQSIG (INV > 50%)
58	216m NW	Good quality semi-improved grassland	Main habitat: GQSIG (INV > 50%)
59	218m W	Good quality semi-improved grassland	Main habitat: GQSIG (INV > 50%)

This data is sourced from Natural England.



13.2 Habitat Networks

Records within 250m

15

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.

Features are displayed on the Habitat designations map on [page 171 >](#)

ID	Location	Type	Habitat
24	On site	Primary Habitat	Saltmarsh
25	On site	Associated Habitats	Other associated habitats
26	On site	Associated Habitats	Other associated habitats
27	On site	Network Enhancement Zone 1	Not specified
28	On site	Network Enhancement Zone 1	Not specified
29	On site	Network Enhancement Zone 2	Not specified
30	On site	Network Enhancement Zone 2	Not specified
31	On site	Restorable Habitat	Not specified
D	On site	Network Enhancement Zone 1	Not specified
45	56m NW	Network Enhancement Zone 1	Not specified
47	75m S	Network Enhancement Zone 2	Not specified
48	113m NW	Primary Habitat	Saltmarsh
51	146m NW	Network Enhancement Zone 2	Not specified
52	169m NW	Network Enhancement Zone 1	Not specified
61	249m W	Network Enhancement Zone 1	Not specified

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

1

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.

Features are displayed on the Habitat designations map on [page 171 >](#)



ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
60	223m SE	Land at Erith Marshes	High	BugLife All Of A Buzz Data	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

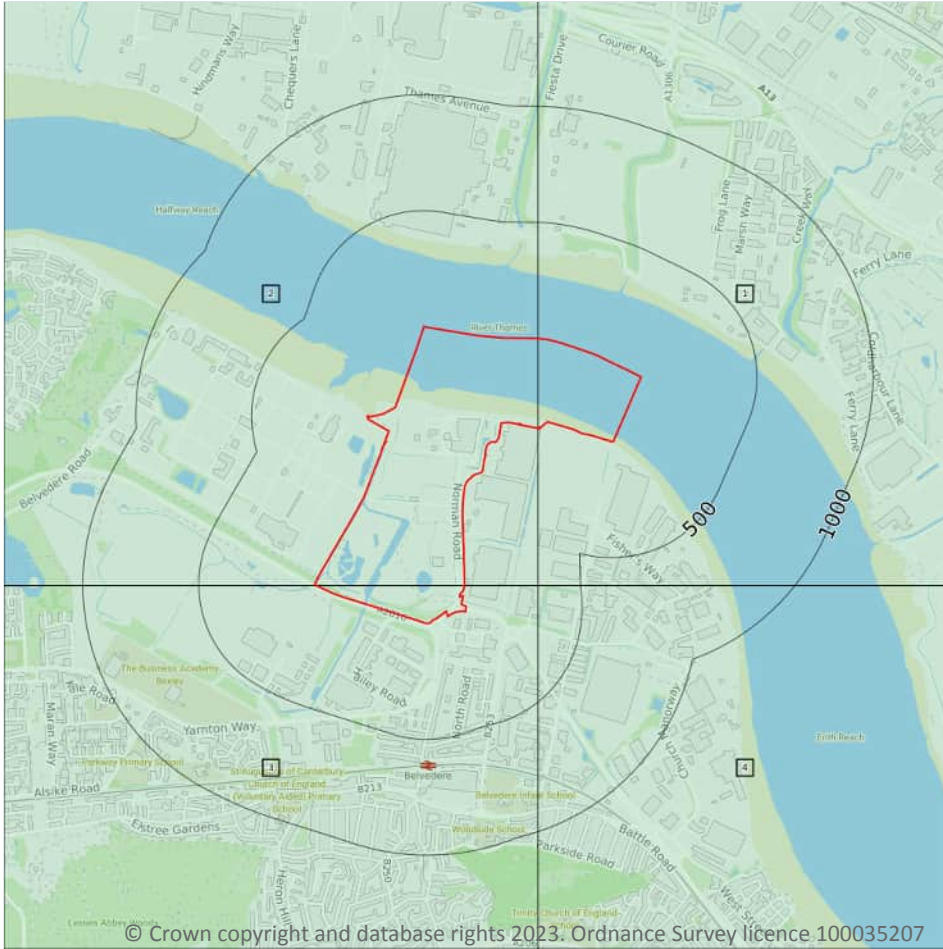
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Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable 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



— Site Outline
 Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

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 176 >](#)

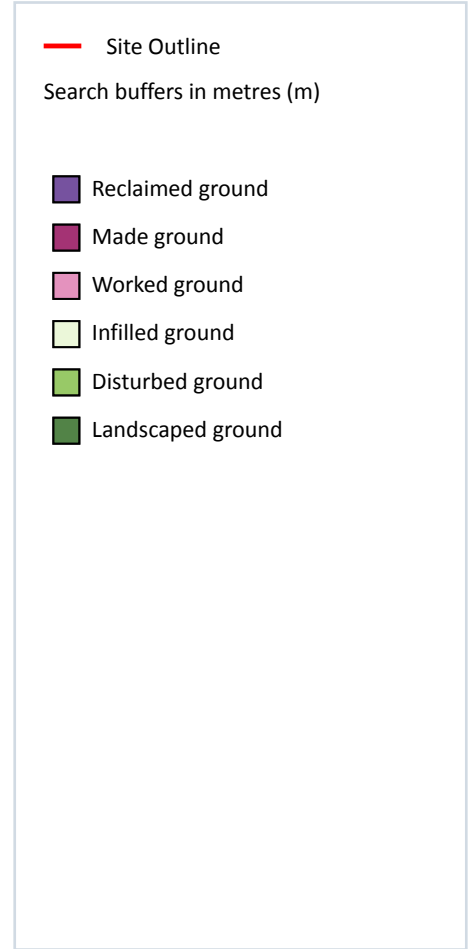
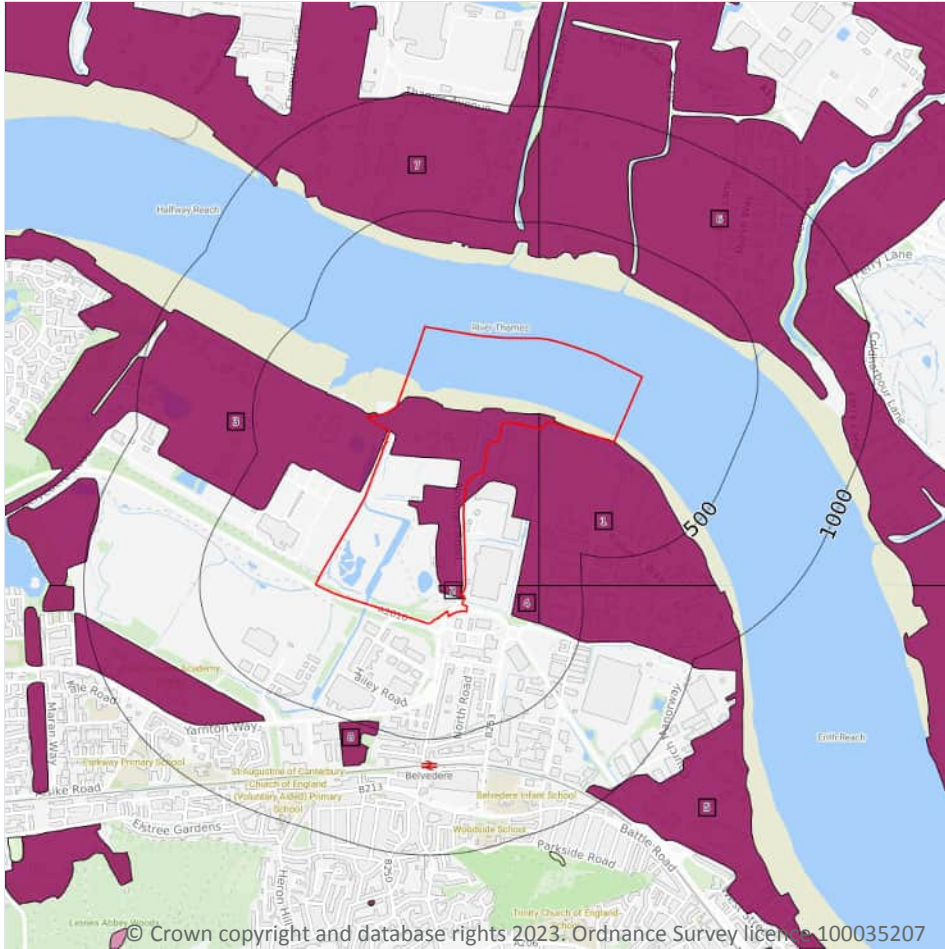
ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	TQ58SW
2	On site	Full	Full	Full	No coverage	TQ48SE
3	On site	Full	Full	Full	No coverage	TQ47NE
4	311m SE	Full	Full	Full	No coverage	TQ57NW



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

8

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 178](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-UKNOWN	Made Ground (Undivided)	Unknown/unclassified Entry
2	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	195m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

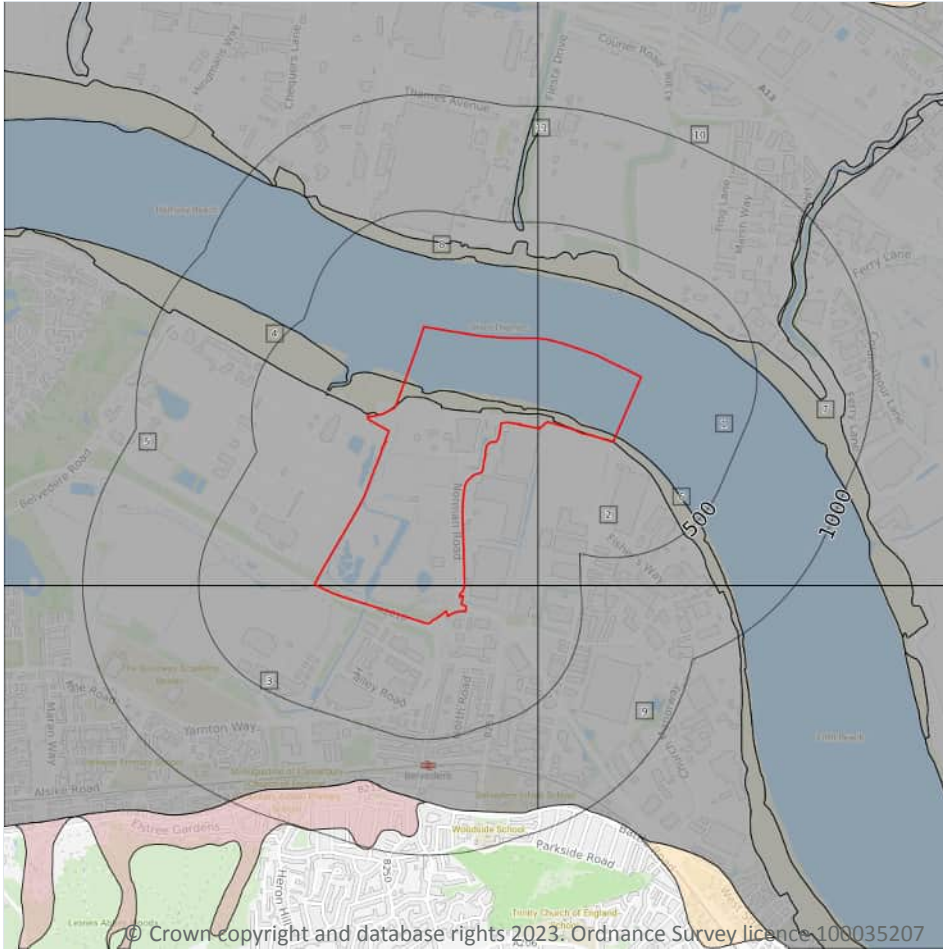



ID	Location	LEX Code	Description	Rock description
5	311m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	346m NE	MGR-UNKNOWN	Made Ground (Undivided)	Unknown/unclassified Entry
7	349m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	470m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

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

11

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 180 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt
2	On site	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt
3	On site	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt
4	On site	TRD-Z	Tidal River Or Creek Deposits - Silt	Silt



ID	Location	LEX Code	Description	Rock description
5	On site	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt
6	On site	TRD-Z	Tidal River Or Creek Deposits - Silt	Silt
7	285m NE	TRD-Z	Tidal River Or Creek Deposits - Silt	Silt
8	294m NE	TRD-Z	Tidal River Or Creek Deposits - Silt	Silt
9	311m SE	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt
10	346m NE	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt
11	464m N	ALV-Z	Alluvium - Silt (unlithified Deposits Coding Scheme)	Silt

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

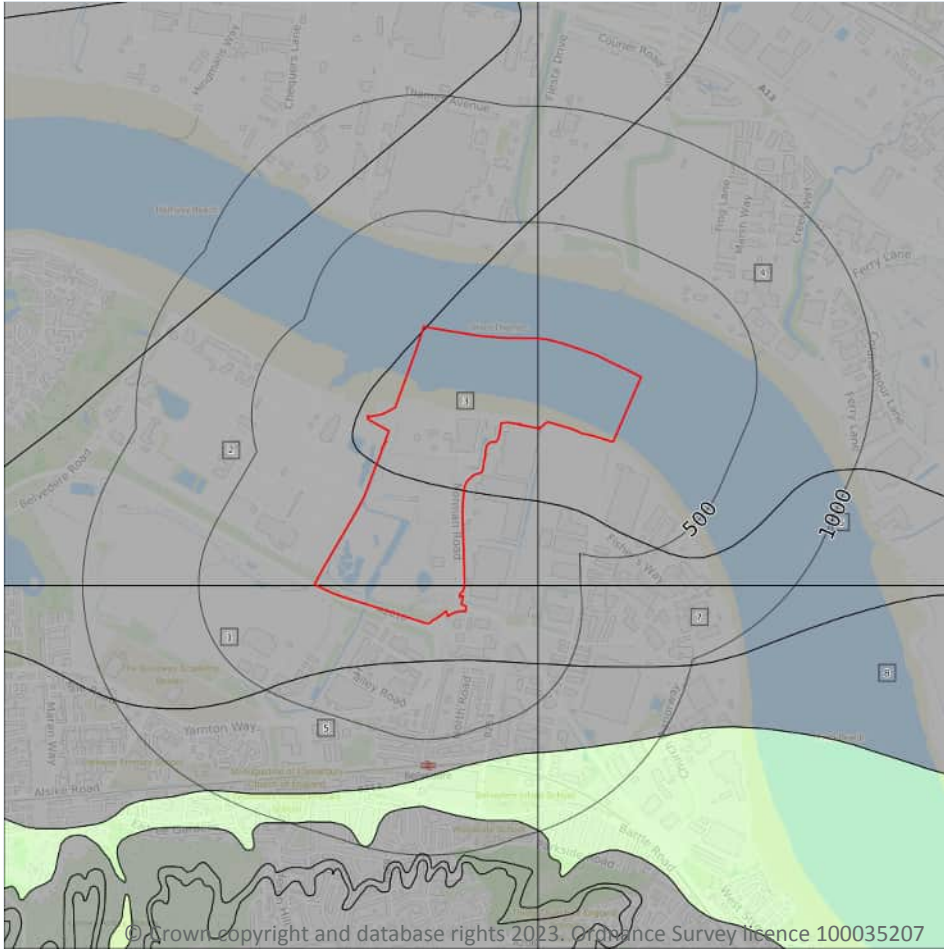
0

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

8

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 182](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	LMBE-SANCL	Lambeth Group - Sand And Clay	Paleocene Epoch
2	On site	LMBE-SANCL	Lambeth Group - Sand And Clay	Paleocene Epoch
3	On site	LC-CLAY	London Clay Formation - Clay	Eocene Epoch

ID	Location	LEX Code	Description	Rock age
4	On site	LC-CLAY	London Clay Formation - Clay	Eocene Epoch
5	164m S	TAB-SANDU	Thanet Sand Formation - Sand	Thanetian Age
6	273m SE	LMBE-SACL	Lambeth Group - Sandy Clay	Paleocene Epoch
7	311m SE	LMBE-SANCL	Lambeth Group - Sand And Clay	Paleocene Epoch
8	386m S	TAB-SANDU	Thanet Sand Formation - Sand	Thanetian Age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

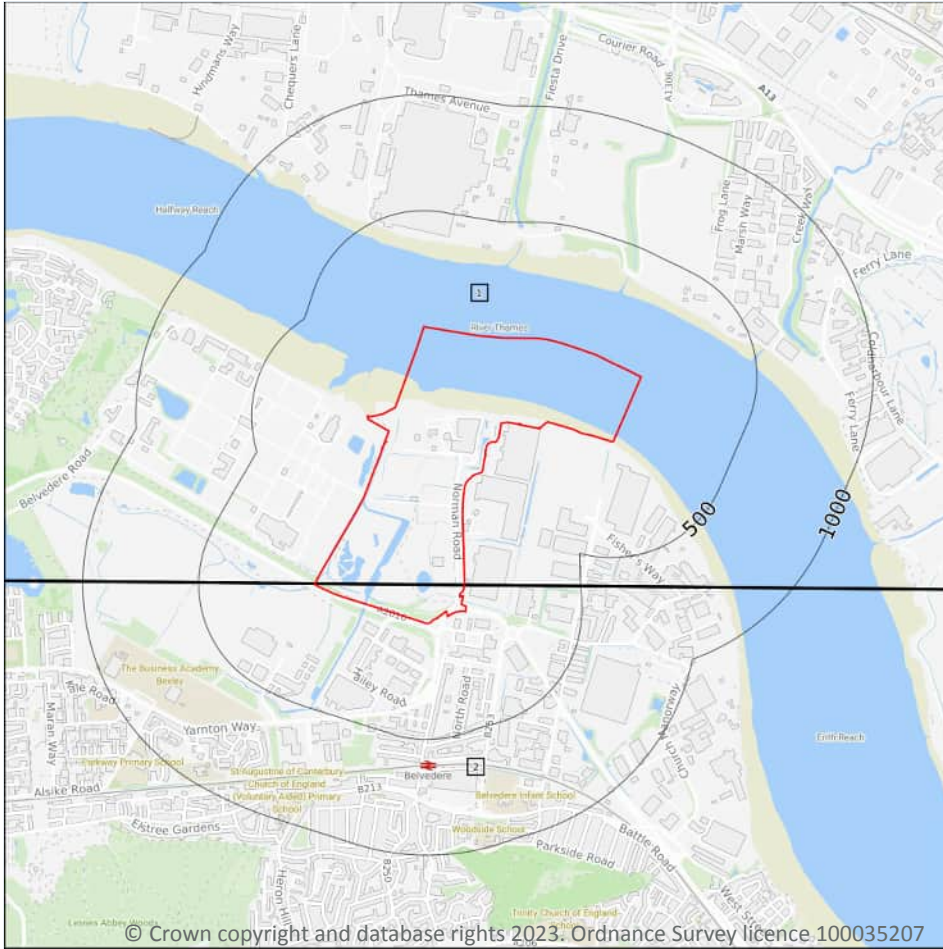
0

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.

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

2

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

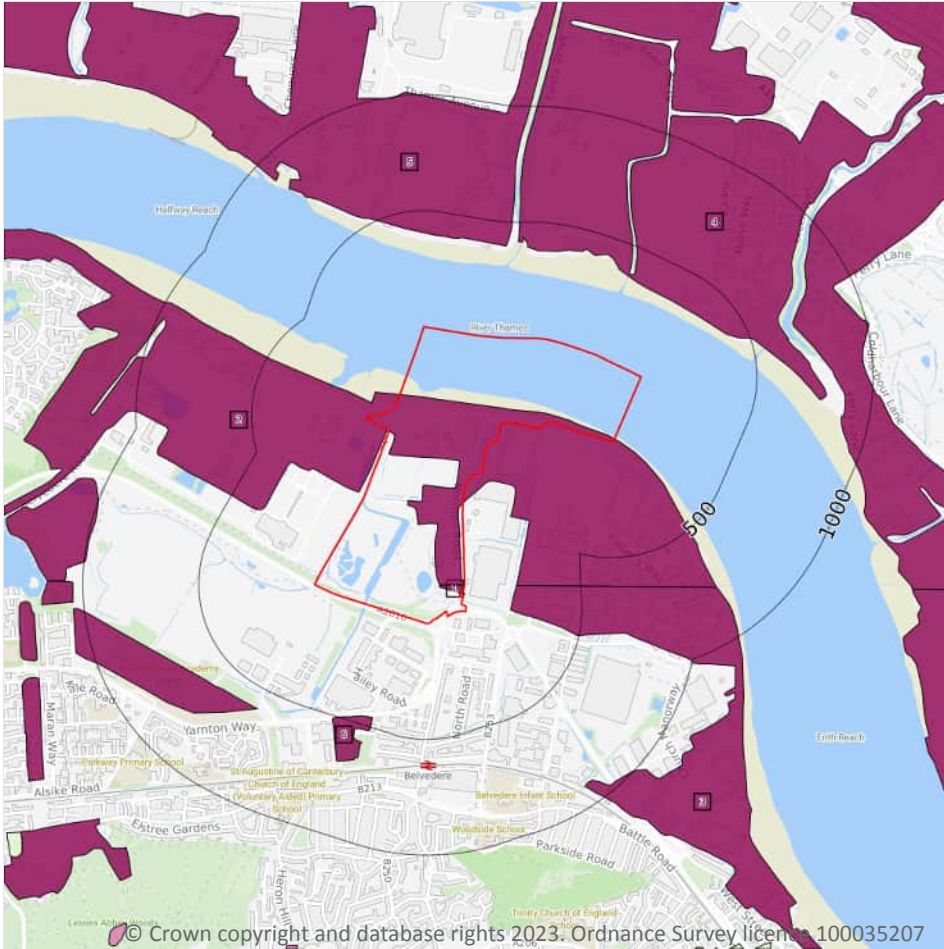
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 184](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW257_romford_v4
2	On site	Full	Full	Full	Full	EW271_dartford_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

6

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 185 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	193m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	351m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

ID	Location	LEX Code	Description	Rock description
5	396m N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
6	457m S	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

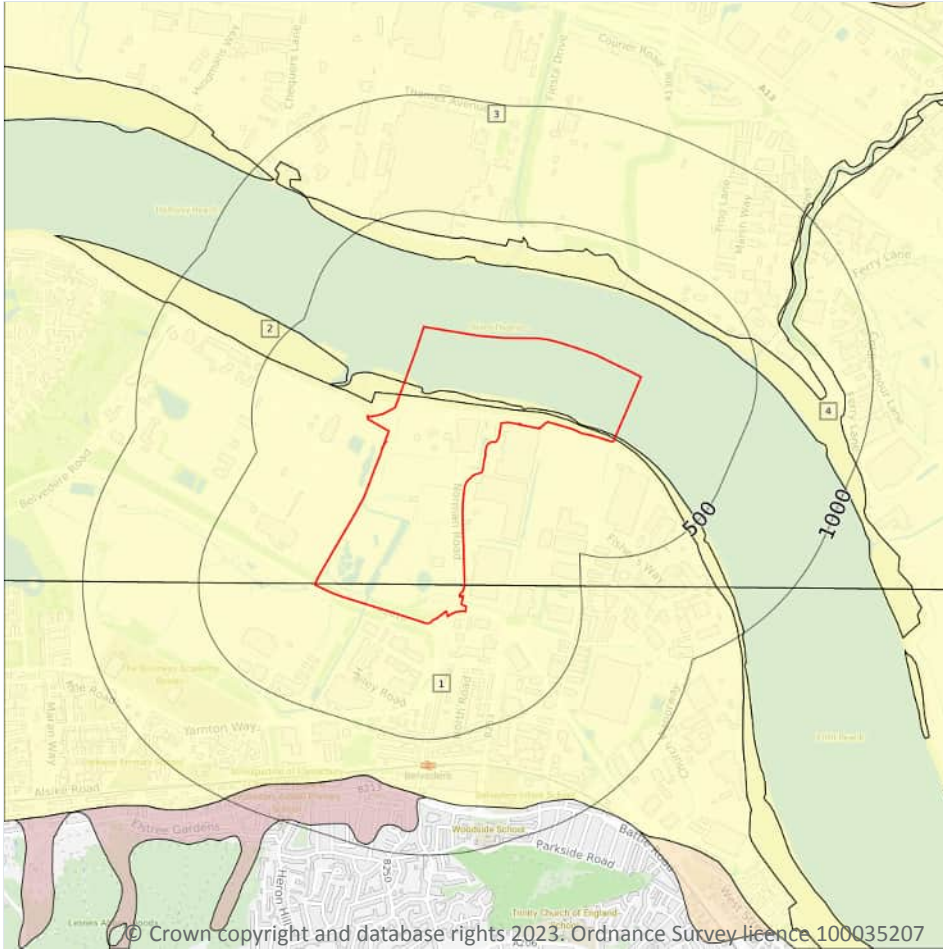
Records within 50m	3
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A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Very High	Low
On site	Mixed	Very High	Low
On site	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

4

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 187](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSP	ALLUVIUM	CLAY, SILT, SAND AND PEAT
2	On site	TRD-XCZ	TIDAL RIVER OR CREEK DEPOSITS	CLAY AND SILT
3	On site	ALV-XCZSP	ALLUVIUM	CLAY, SILT, SAND AND PEAT
4	285m NE	TRD-XCZ	TIDAL RIVER OR CREEK DEPOSITS	CLAY AND SILT



This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

6

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
On site	Intergranular	Low	Very Low
On site	Intergranular	Low	Very Low
On site	Intergranular	Moderate	Very Low
On site	Intergranular	Moderate	Very Low
On site	Intergranular	Moderate	Very Low
On site	Intergranular	Moderate	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

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)

Records within 50m

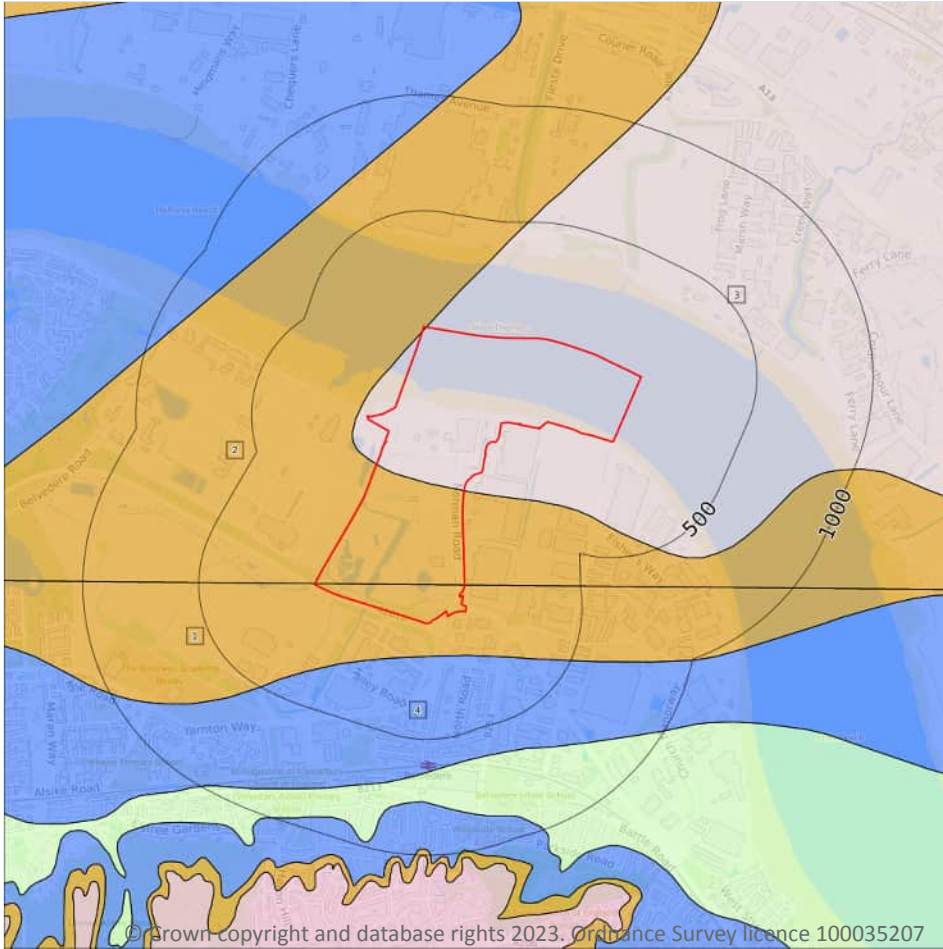
0

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 189](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	LMBE-XSZC	LAMBETH GROUP - SAND, SILT AND CLAY	THANETIAN
2	On site	LMBE-XCZS	LAMBETH GROUP - CLAY, SILT AND SAND	THANETIAN
3	On site	LC-XCZS	LONDON CLAY FORMATION - CLAY, SILT AND SAND	YPRESIAN
4	143m S	TAB-S	THANET FORMATION - SAND	THANETIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

5

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	Moderate	Very Low
On site	Intergranular	High	Low
On site	Intergranular	High	Low
On site	Mixed	Moderate	Very Low
On site	Mixed	Moderate	Very Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

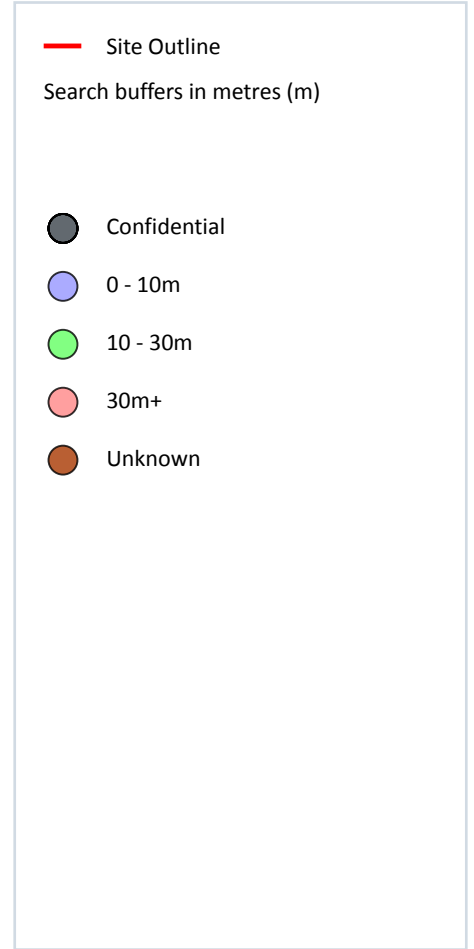
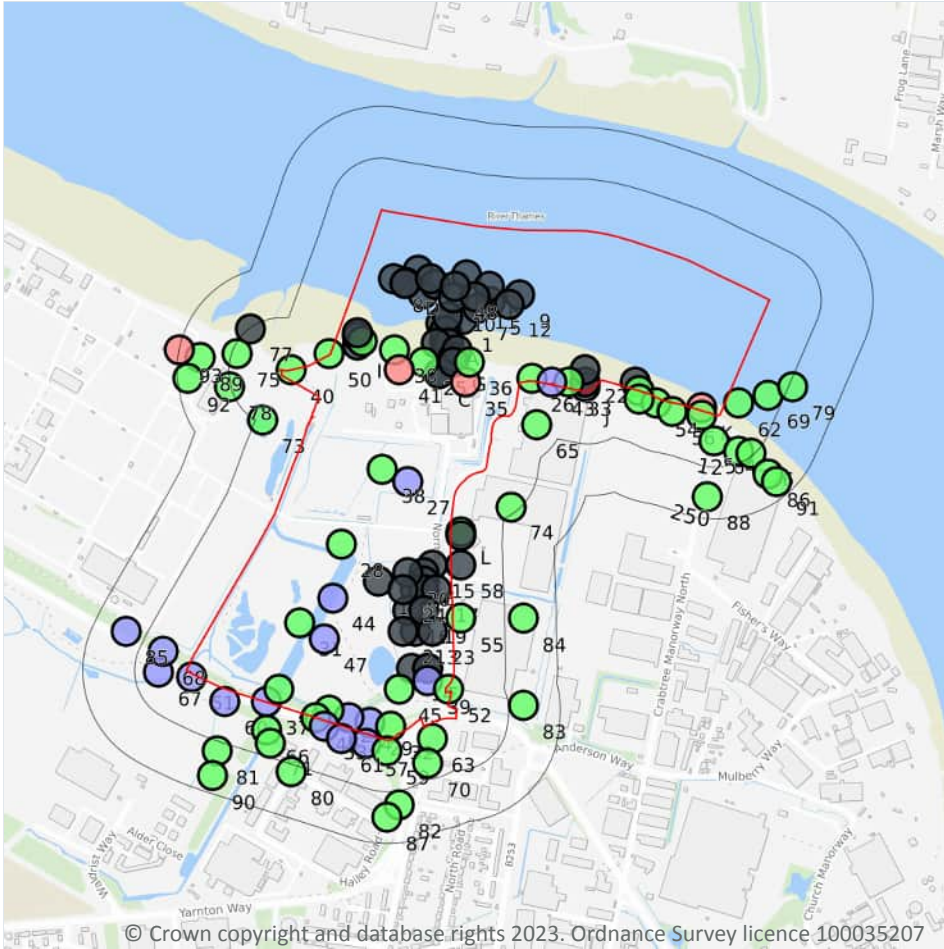
0

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.

This data is sourced from the British Geological Survey.



16 Boreholes



16.1 BGS Boreholes

Records within 250m

128

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 191](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	549703 180853	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION CPT205	-	Y	N/A
2	On site	549608 180914	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION CPT206	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
3	On site	549597 180972	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION CPT207	-	Y	N/A
4	On site	549712 180960	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION CPT209	-	Y	N/A
5	On site	549771 180896	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION CPT211	-	Y	N/A
6	On site	549767 180933	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION CPT212	-	Y	N/A
7	On site	549740 180880	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION CPT213	-	Y	N/A
8	On site	549536 180950	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION CPT214	-	Y	N/A
9	On site	549842 180912	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION CPT215	-	Y	N/A
10	On site	549680 180904	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION BH105	-	Y	N/A
11	On site	549733 180908	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION BH108	-	Y	N/A
12	On site	549815 180889	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION BH109	-	Y	N/A
13	On site	549590 180100	BELVEDERE GENERATING STATION KENT 107	-	Y	N/A
14	On site	549580 180010	BELVEDERE GENERATING STATION KENT 109	-	Y	N/A
15	On site	549630 180260	BELVEDERE GENERATING STATION KENT 111	-	Y	N/A
16	On site	549570 180150	BELVEDERE GENERATING STATION KENT 105	-	Y	N/A
17	On site	549640 180200	BELVEDERE GENERATING STATION KENT 104	-	Y	N/A
18	On site	549500 180220	BELVEDERE GENERATING STATION KENT 101	-	Y	N/A
19	On site	549610 180150	BELVEDERE GENERATING STATION KENT 106	-	Y	N/A
20	On site	549570 180240	2190 BELVEDERE-132KV.SUB STATION 115	-	Y	N/A
21	On site	549560 180100	2190 BELVEDERE-132KV.SUB STATION 119	-	Y	N/A
22	On site	550000 180730	THAMES FLOOD PREVENTION SOUTH BANK- BEXLEY K6C	-	Y	N/A
23	On site	549630 180100	BELVEDERE GENERATING STATION KENT 108	-	Y	N/A
24	On site	549560 180200	2190 BELVEDERE-132KV.SUB STATION 117	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
25	On site	549610 180750	THAMES FLOOD PREVENTION BH6	12.19	N	890884 ↗
26	On site	549870 180710	THAMES FLOOD PREVENTION BH7	15.24	N	890885 ↗
27	On site	549570 180460	THAMESMEAD ESTATE BH127	9.45	N	890570 ↗
28	On site	549410 180310	THAMESMEAD ESTATE BH105 ERITH	15.39	N	890568 ↗
29	On site	549480 179880	THAMESMEAD SPINE ROAD BH40	10.0	N	881637 ↗
30	On site	549540 180780	THAMESMEAD RIVER DEFENCES BH25	15.0	N	890701 ↗
31	On site	549310 180120	THAMESMEAD BH106	15.24	N	890569 ↗
32	On site	549530 179870	THAMESMEAD SPINE ROAD BH42	20.0	N	881639 ↗
33	On site	549960 180700	THAMES FLOOD PREVENTION BH8	12.04	N	890886 ↗
34	On site	549430 179890	THAMESMEAD SPINE ROAD BH38	10.0	N	881635 ↗
35	On site	549710 180700	BORAX LTD BELVEDERE	91.44	N	891051 ↗
36	On site	549720 180750	THAMESMEAD RIVER DEFENCES BH26	14.6	N	890702 ↗
37	On site	549230 179930	THAMESMEAD SPINE ROAD BH34	10.0	N	881631 ↗
38	On site	549510 180490	THAMESMEAD EAST BH104 ERITH	15.24	N	890567 ↗
39	On site	549620 179980	BELVEDERE GENERATING STATION BH121	1.82	N	881609 ↗
40	On site	549290 180730	THAMESMEAD RIVER DEFENCES BH23	15.0	N	890699 ↗
41	On site	549550 180730	BORAX CONSOLIDATED LTD	34.44	N	890863 ↗
42	On site	549380 179910	THAMESMEAD SPINE ROAD BH36	10.2	N	881633 ↗
43	On site	549920 180700	THAMES FLOOD PREVENTION BH7A	9.91	N	890887 ↗
44	On site	549390 180180	THAMESMEAD BH128	9.14	N	890571 ↗
45	On site	549550 179960	THAMES FLOODS PREVENTION 19	10.06	N	881660 ↗
46	On site	549260 179960	THAMES MEAD EAST ERITH BH107	15.39	N	881511 ↗
47	On site	549370 180080	THAMESMEAD ESTATE BH129	8.08	N	890572 ↗
48	On site	549685 180932	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION CPT210	-	Y	N/A
A	On site	549666 180820	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION CPT203	-	Y	N/A
A	On site	549652 180843	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION CPT204	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	549661 180799	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION BH102	-	Y	N/A
A	On site	549661 180825	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION BH103	-	Y	N/A
A	On site	549667 180858	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION BH104	-	Y	N/A
A	On site	549669 180795	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION CPT201	-	Y	N/A
A	On site	549640 180795	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION CPT202	-	Y	N/A
B	On site	549638 180936	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION CPT208	-	Y	N/A
B	On site	549627 180950	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION BH107	-	Y	N/A
C	On site	549646 180722	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION BH101	-	Y	N/A
C	On site	549647 180722	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION BH101A	-	Y	N/A
D	On site	549567 180942	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION BH106	-	Y	N/A
D	On site	549565 180939	RIVERSIDE RESOURCE RECOVERY FACILITY GROUND INVESTIGATION BH106A	-	Y	N/A
E	On site	549610 180240	2190 BELVEDERE-132KV.SUB STATION 116	-	Y	N/A
E	On site	549610 180220	BELVEDERE GENERATING STATION KENT 102	-	Y	N/A
E	On site	549590 180200	BELVEDERE GENERATING STATION KENT 103	-	Y	N/A
E	On site	549610 180200	2190 BELVEDERE-132KV.SUB STATION 118	-	Y	N/A
F	On site	549620 180010	2190 BELVEDERE-132KV.SUB STATION 220	-	Y	N/A
F	On site	549620 180010	BELVEDERE GENERATING STATION KENT 110	-	Y	N/A
G	On site	549680 180760	THAMES FLOOD PREVENTION SOUTH BANK- BEXLEY K5B	-	Y	N/A
G	On site	549690 180780	THAMES FLOOD PREVENTION SOUTH BANK- BEXLEY K5C	-	Y	N/A
G	On site	549680 180750	THAMES FLOOD PREVENTION SOUTH BANK- BEXLEY K5A	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
H	On site	550120 180700	THAMES FLOOD PREVENTION SOUTH BANK-BEXLEY K7A	-	Y	N/A
H	On site	550130 180680	THAMESMEAD RIVER DEFENCES BH27	20.7	N	823823 ↗
I	On site	549450 180790	THAMES FLOOD PREVENTION SOUTH BANK-BEXLEY K4A	-	Y	N/A
I	On site	549450 180810	THAMES FLOOD PREVENTION SOUTH BANK-BEXLEY K4B	-	Y	N/A
I	On site	549460 180800	THAMESMEAD RIVER DEFENCES BH24	15.0	N	890700 ↗
I	On site	549450 180820	THAMES FLOOD PREVENTION SOUTH BANK-BEXLEY K4C	-	Y	N/A
J	On site	550000 180690	THAMES FLOOD PREVENTION SOUTH BANK-BEXLEY K6A	-	Y	N/A
J	On site	550000 180700	THAMES FLOOD PREVENTION SOUTH BANK-BEXLEY K6B	-	Y	N/A
K	On site	550280 180640	BELVEDERE GENERATING STATION BH1350	31.09	N	823866 ↗
49	0m SW	549350 179890	THAMESMEAD SPINE ROAD BH35	10.1	N	881632 ↗
50	4m NW	549380 180770	THAMES FLOOD PREVENTION BH5	11.58	N	890883 ↗
51	6m SW	549050 179990	THAMESMEAD SPINE ROAD BH32	10.0	N	881629 ↗
52	7m S	549670 179960	BELVEDERE POWER STATION 6	14.5	N	18425736 ↗
K	12m E	550280 180620	THAMESMEAD RIVER DEFENCES BH33	17.0	N	823827 ↗
53	13m SW	549370 179870	THAMESMEAD SPINE ROAD BH37	10.0	N	881634 ↗
54	13m E	550170 180650	THAMESMEAD RIVER DEFENCES BH30	17.0	N	823825 ↗
H	19m E	550130 180660	THAMESMEAD RIVER DEFENCES BH29	16.5	N	823824 ↗
55	21m S	549700 180130	BELVEDERE POWER STATION 5	14.5	N	18425734 ↗
56	21m E	550210 180630	THAMESMEAD RIVER DEFENCES BH31	17.0	N	823826 ↗
57	21m S	549470 179830	THAMESMEAD SPINE ROAD BH41	10.0	N	881638 ↗
58	25m S	549700 180260	BELVEDERE GENERATING STATION KENT 112	-	Y	N/A
L	25m S	549700 180340	BELVEDERE POWER STATION 1	19.5	N	18425722 ↗
L	25m S	549700 180330	BELVEDERE GENERATING STATION KENT 113	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
59	27m S	549520 179810	THAMESMEAD SPINE ROAD BH43	20.0	N	881640 ↗
60	29m SW	549130 179930	THAMESMEAD SPINE ROAD BH33	10.0	N	881630 ↗
61	30m S	549410 179840	THAMESMEAD SPINE ROAD BH39	10.0	N	881636 ↗
62	30m E	550370 180650	BELVEDERE GENERATING STATION BH1353	27.13	N	823867 ↗
63	33m S	549630 179840	THAMESMEAD SPINE ROAD BH44	20.0	N	881641 ↗
64	61m E	550310 180560	THAMES FLOOD PREVENTION BH9	10.52	N	823870 ↗
65	65m E	549882 180598	CHANNEL TUNNEL RAIL LINK R440065	25.0	N	15619695 ↗
66	65m SW	549230 179860	THAMES MEAD EAST ERITH BH108	15.24	N	881512 ↗
67	67m SW	548970 180000	CROSSNESS SEWER WORKS TP3	3.0	N	891264 ↗
68	71m SW	548980 180050	THAMESMEAD 3 BH31 SPINE ROAD	10.0	N	890816 ↗
69	87m E	550440 180670	BELVEDERE GENERATING STATION BH1356	11.28	N	823868 ↗
70	87m S	549620 179780	THAMESMEAD SPINE ROAD BH45	20.0	N	881642 ↗
71	91m SW	549240 179830	THAMES MEAD EAST ERITH BH126	15.24	N	881529 ↗
72	98m E	550370 180535	CRABTREE MANOR WAY ERITH 1	27.0	N	823924 ↗
73	108m W	549220 180610	CROSSNESS SEWAGE WORKS BH408	12.5	N	890895 ↗
74	109m SE	549820 180400	BELVEDERE POWER STATION 2	14.5	N	18425728 ↗
75	111m NW	549160 180770	CROSSNESS SEWAGE WORKS BH405	18.0	N	890892 ↗
76	118m E	550400 180530	THAMESMEAD RIVER DEFENCES BH34	19.8	N	823828 ↗
77	124m NW	549190 180830	THAMES FLOOD PREVENTION SOUTH BANK- BEXLEY K3B	-	Y	N/A
78	130m W	549140 180690	CROSSNESS SEWAGE WORKS BH406	18.0	N	890893 ↗
79	134m E	550500 180690	BELVEDERE GENERATING STATION BH1357	21.34	N	823869 ↗
80	142m SW	549290 179760	THAMES MEAD EAST ERITH BH125	15.24	N	881528 ↗
81	149m SW	549110 179810	CROSSNESS SEWER WORKS BH415	11.0	N	882242 ↗
82	159m S	549550 179680	THAMES MEAD EAST ERITH BH120	15.24	N	881523 ↗
83	161m S	549850 179920	BELVEDERE POWER STATION 7	19.5	N	18425739 ↗
84	171m SE	549850 180130	BELVEDERE POWER STATION 4	19.5	N	18425732 ↗

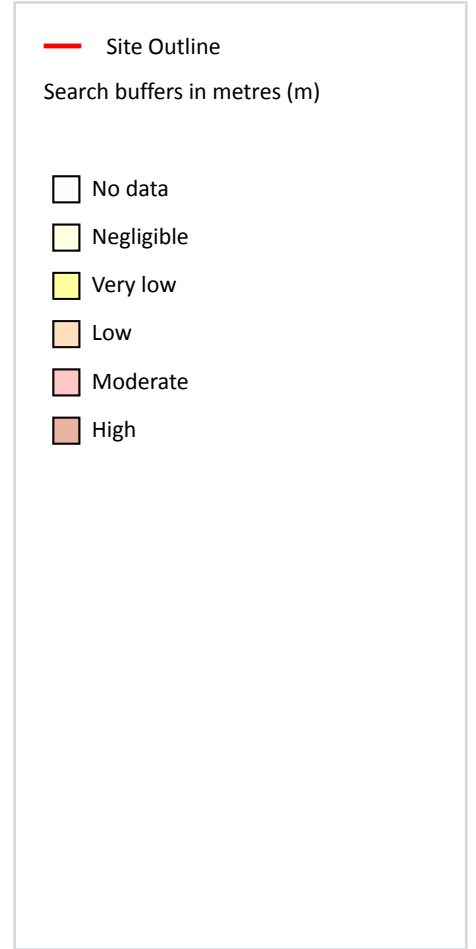
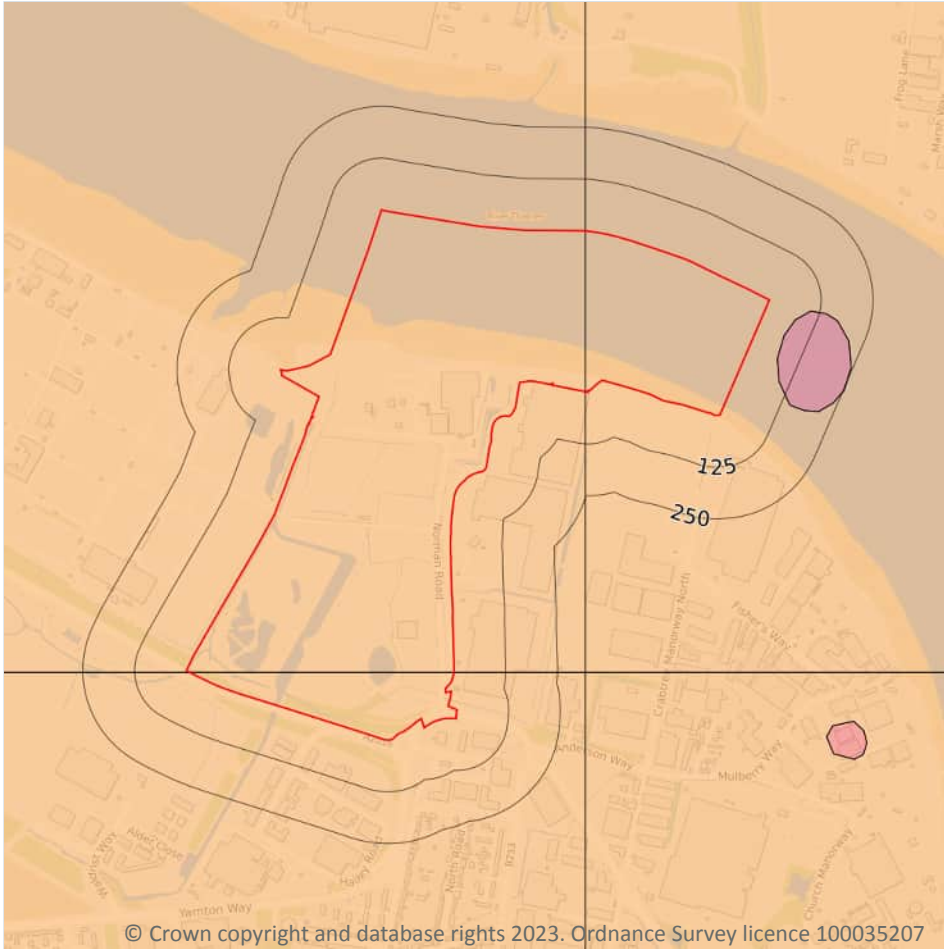


ID	Location	Grid reference	Name	Length	Confidential	Web link
85	173m SW	548890 180100	THAMESMEAD 3 BH30 SPINE ROAD	10.0	N	890815 ↗
86	183m E	550440 180480	THAMES FLOOD PREVENTION BH10-10A-10B	10.67	N	823871 ↗
87	187m S	549520 179650	THAMES MEAD EAST ERITH BH119	15.24	N	881522 ↗
88	196m E	550295 180425	CRABTREE MANOR WAY ERITH 4	12.0	N	823927 ↗
89	196m W	549070 180760	CROSSNESS SEWAGE WORKS BH403	18.0	N	890890 ↗
90	209m SW	549100 179750	THAMES MEAD EAST ERITH BH109	15.24	N	881513 ↗
91	212m E	550462 180460	CRABTREE MANOR WAY ERITH 2	16.0	N	823925 ↗
92	225m W	549040 180710	CROSSNESS SEWAGE WORKS BH404	18.0	N	890891 ↗
93	249m W	549020 180780	CROSSNESS SEWER WORKS BH403	32.0	N	891251 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

1

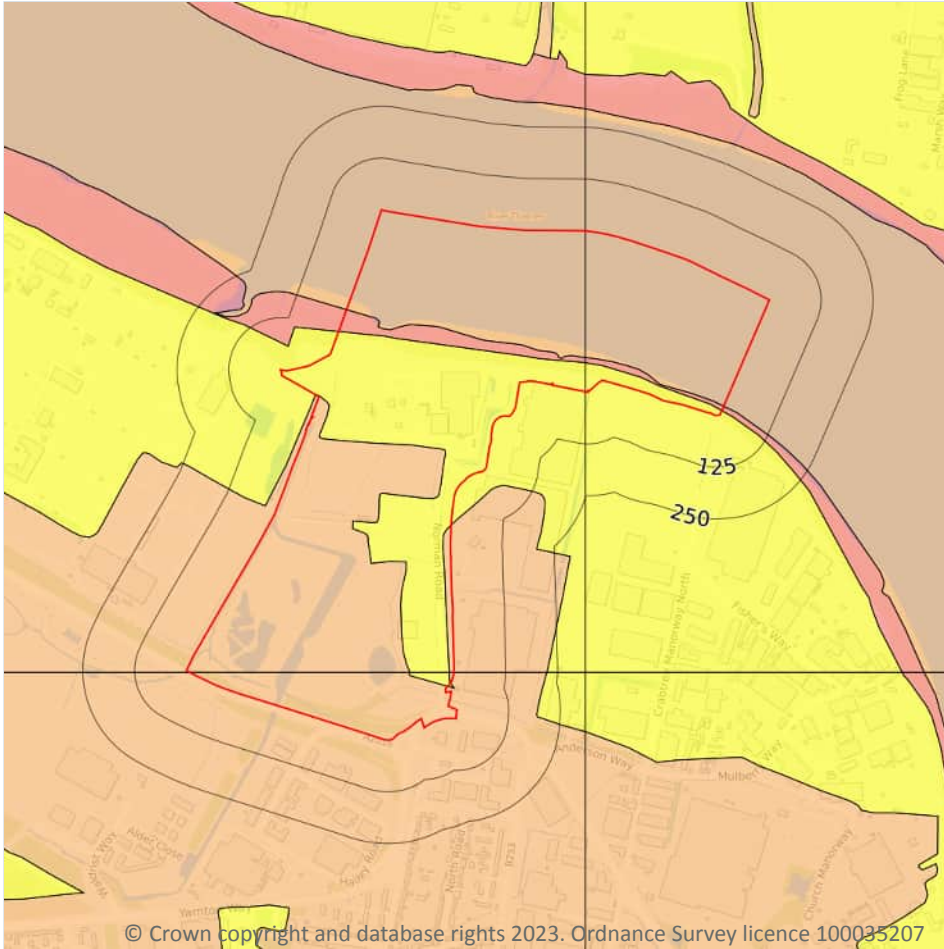
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 198 >](#)

Location	Hazard rating	Details
On site	Low	Ground conditions predominantly medium plasticity.

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 199](#) >

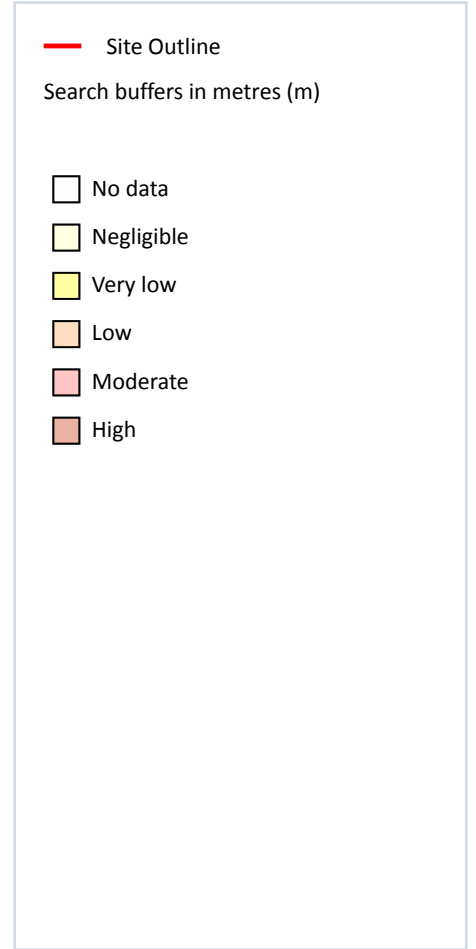
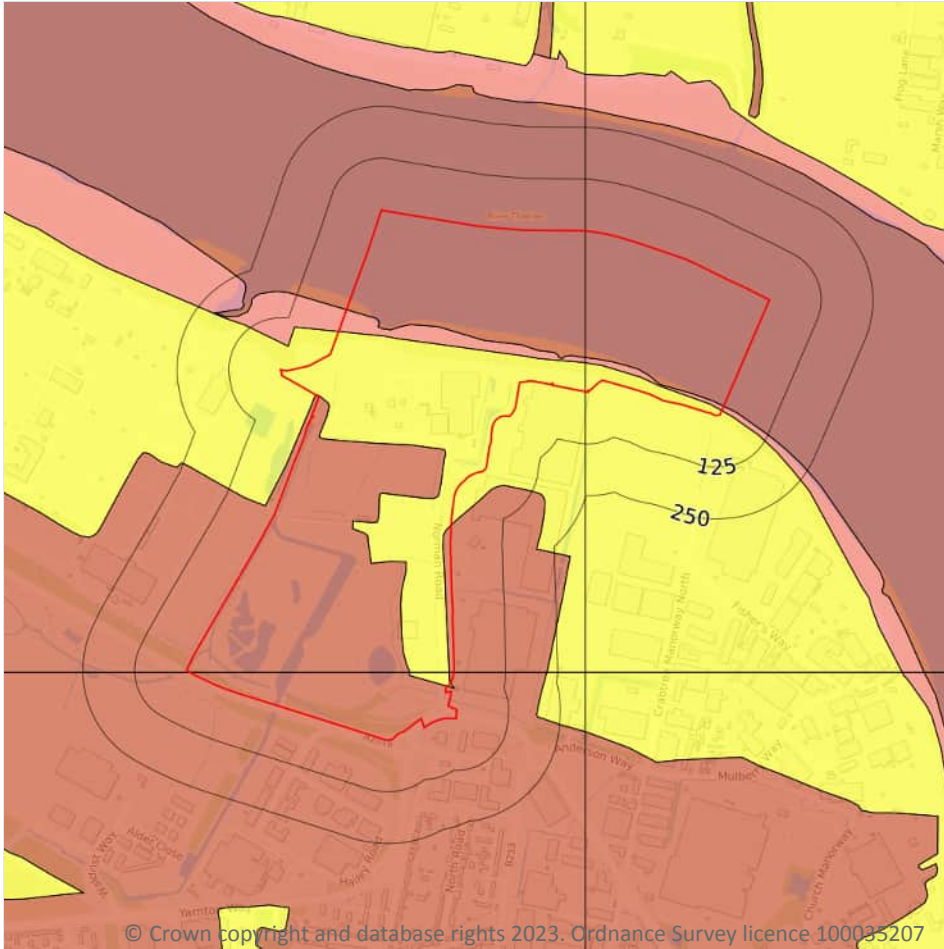
Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

Location	Hazard rating	Details
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
On site	Moderate	Running sand conditions are probably present. Constraints may apply to land uses involving excavation or the addition or removal of water.

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 201](#) >

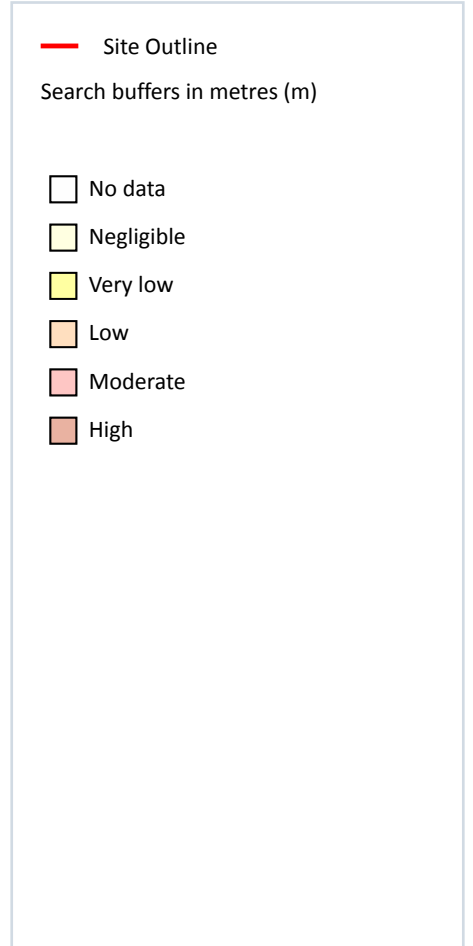
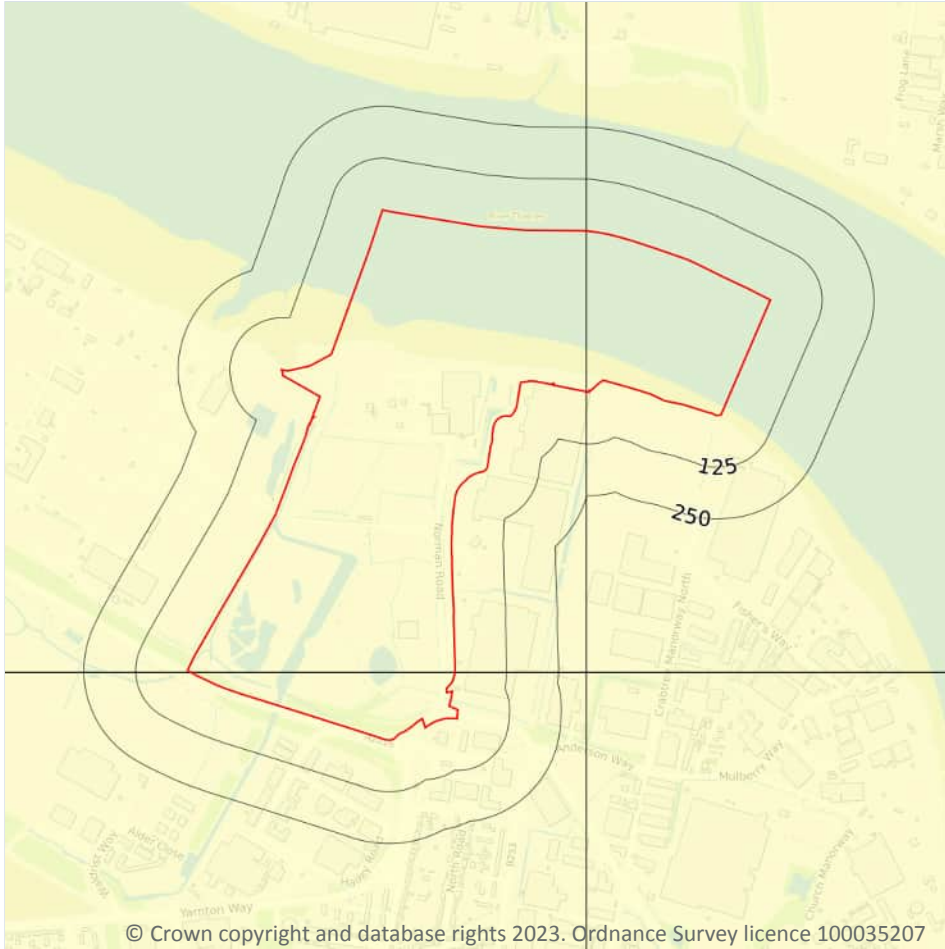
Location	Hazard rating	Details
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

Location	Hazard rating	Details
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
On site	High	Highly compressible strata present. Significant constraint on land use depending on thickness.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

1

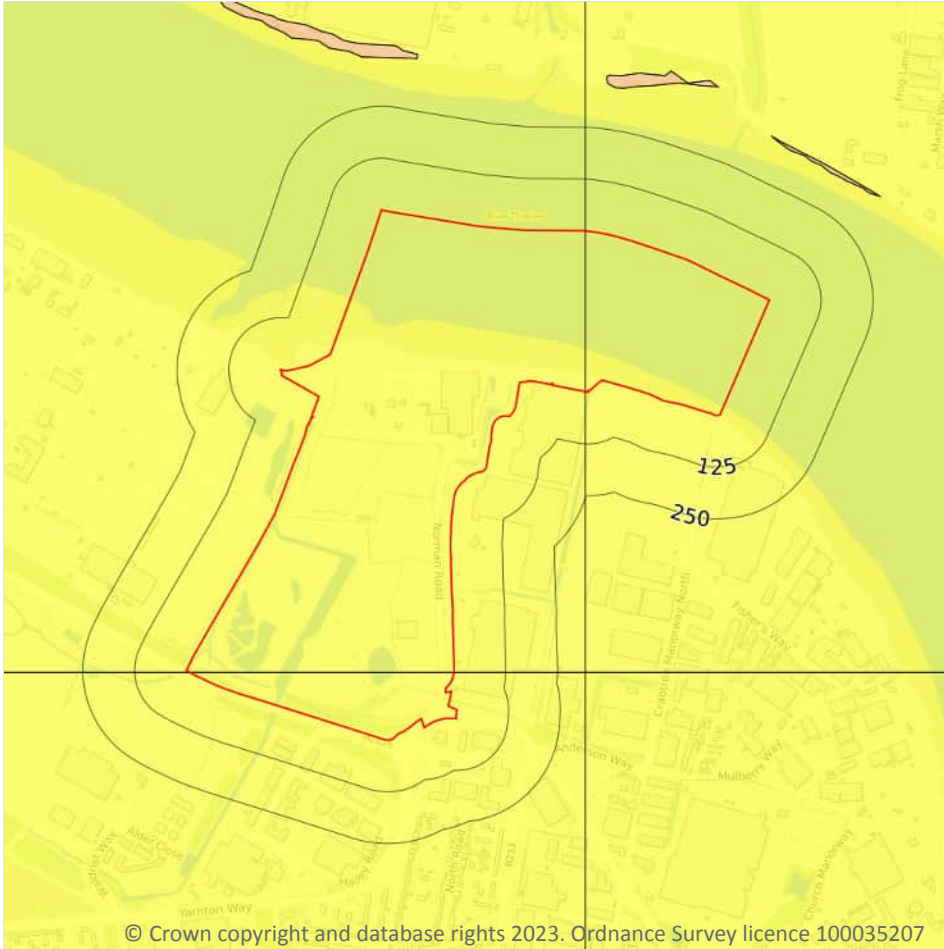
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 203 >](#)

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



— Site Outline
Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m

1

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.

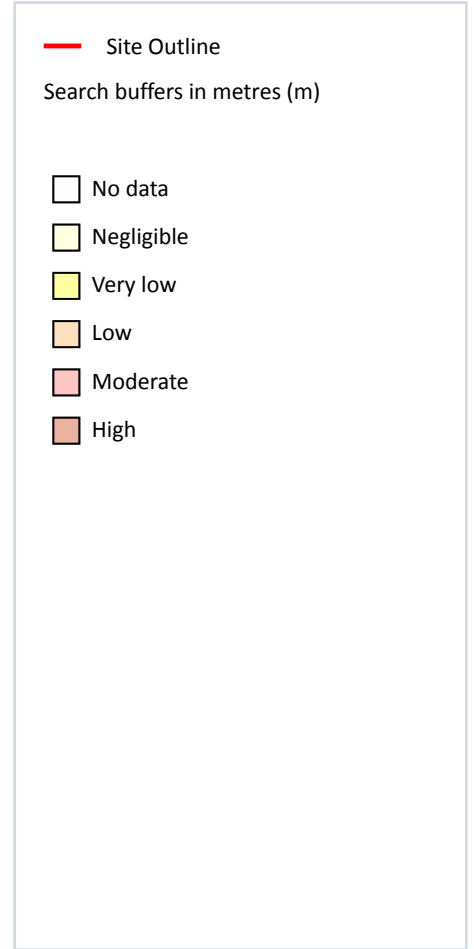
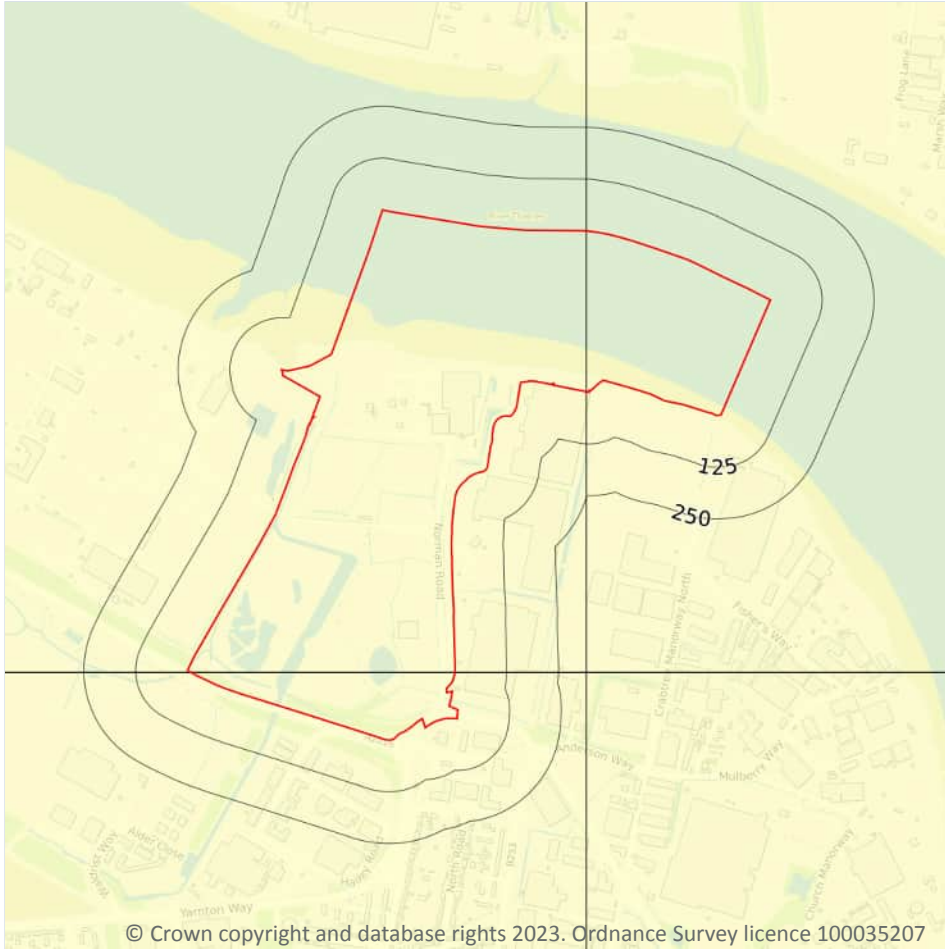
Features are displayed on the Natural ground subsidence - Landslides map on [page 204](#) >

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.

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 205 >](#)

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 and ground workings



18.1 BritPits

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m

47

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 and ground workings map on [page 207 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Unspecified Heap	1907	1:10560
2	On site	Unspecified Wharf	1969	1:10560
A	On site	Refuse Heap	1907	1:10560
A	On site	Unspecified Pit	1921	1:10560
A	On site	Unspecified Heap	1938	1:10560
A	On site	Refuse Heap	1938	1:10560
A	On site	Refuse Heap	1938	1:10560
A	On site	Refuse Heap	1949	1:10560
A	On site	Refuse Heap	1907	1:10560
A	On site	Refuse Heap	1915	1:10560
A	On site	Refuse Heap	1921	1:10560
B	On site	Pond	1921	1:10560
B	On site	Pond	1938	1:10560
B	On site	Pond	1895	1:10560
B	On site	Pond	1895	1:10560
B	On site	Pond	1895	1:10560
B	On site	Ponds	1938	1:10560
B	On site	Pond	1907	1:10560
B	On site	Pond	1907	1:10560
B	On site	Pond	1915	1:10560
B	On site	Pond	1898	1:10560
C	On site	Refuse Heap	1983	1:10000
C	On site	Refuse Heap	1974	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
C	On site	Refuse Heap	1969	1:10560
C	On site	Refuse Heap	1995	1:10000
D	On site	Unspecified Wharf	1992	1:10000
D	On site	Unspecified Wharf	1973	1:10000
D	On site	Unspecified Wharf	1967	1:10560
3	3m SW	Unspecified Ground Workings	1974	1:10000
4	20m SW	Unspecified Heap	1921	1:10560
5	21m SW	Unspecified Heaps	1969	1:10560
E	26m NW	Sludge Lagoons	1983	1:10000
E	26m NW	Sludge Lagoons	1995	1:10000
F	149m SW	Unspecified Ground Workings	1921	1:10560
F	155m SW	Pond	1907	1:10560
G	202m NW	Sewage Works	1983	1:10000
G	202m NW	Sewage Works	1974	1:10000
G	202m NW	Sewage Works	1969	1:10560
G	202m NW	Sewage Works	1995	1:10000
H	228m W	Pond	1866	1:10560
H	237m W	Unspecified Ground Workings	1921	1:10560
I	238m S	Refuse Heap	1966	1:10560
I	238m S	Refuse Heap	1974	1:10000
H	239m W	Unspecified Ground Workings	1907	1:10560
H	240m W	Unspecified Ground Workings	1907	1:10560
H	241m W	Unspecified Ground Workings	1915	1:10560
7	242m NW	Unspecified Heap	1895	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.3 Underground workings

Records within 1000m

0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m

0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from 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

13

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).

Features are displayed on the Mining and ground workings map on [page 207 >](#)

ID	Location	Name	Commodity	Class	Likelihood
6	143m S	Not available	Sand	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

ID	Location	Name	Commodity	Class	Likelihood
11	374m S	Not available	Sand	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
23	689m NW	Not available	Sand	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
24	702m NW	Not available	Sand	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
25	702m S	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
26	714m S	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
29	768m S	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	809m S	Gladeswood Road	Chalk	D	Underground mining is considered likely to have occurred within or close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
-	859m S	Gladeswood Road	Chalk	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
37	886m S	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
40	961m W	Not available	Sand	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
-	973m S	Not available	Chalk	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	974m S	Not available	Chalk	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0
------------------------	----------

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.

18.8 The Coal Authority non-coal mining

Records within 500m	0
----------------------------	----------

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0
----------------------------	----------

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.



18.10 Mining record office plans

Records within 500m

0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

0

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site

0

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site

0

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.

18.14 Gypsum areas

Records on site

0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.



18.15 Tin mining

Records on site

0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

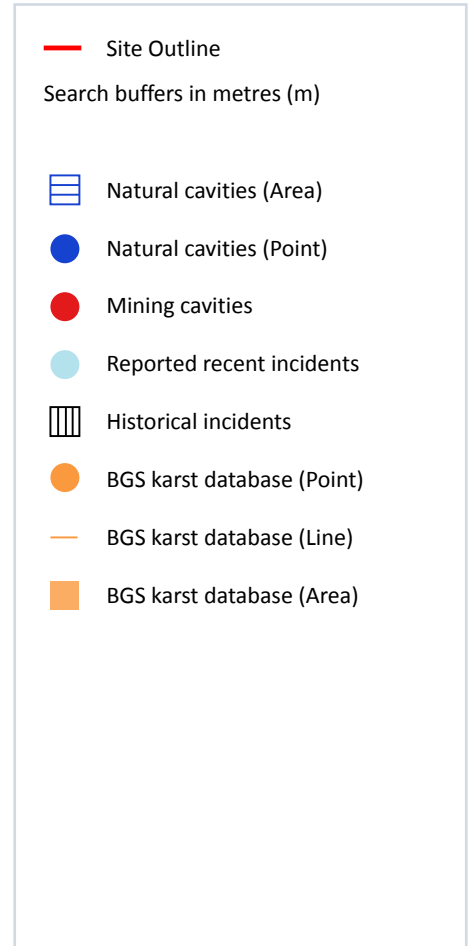
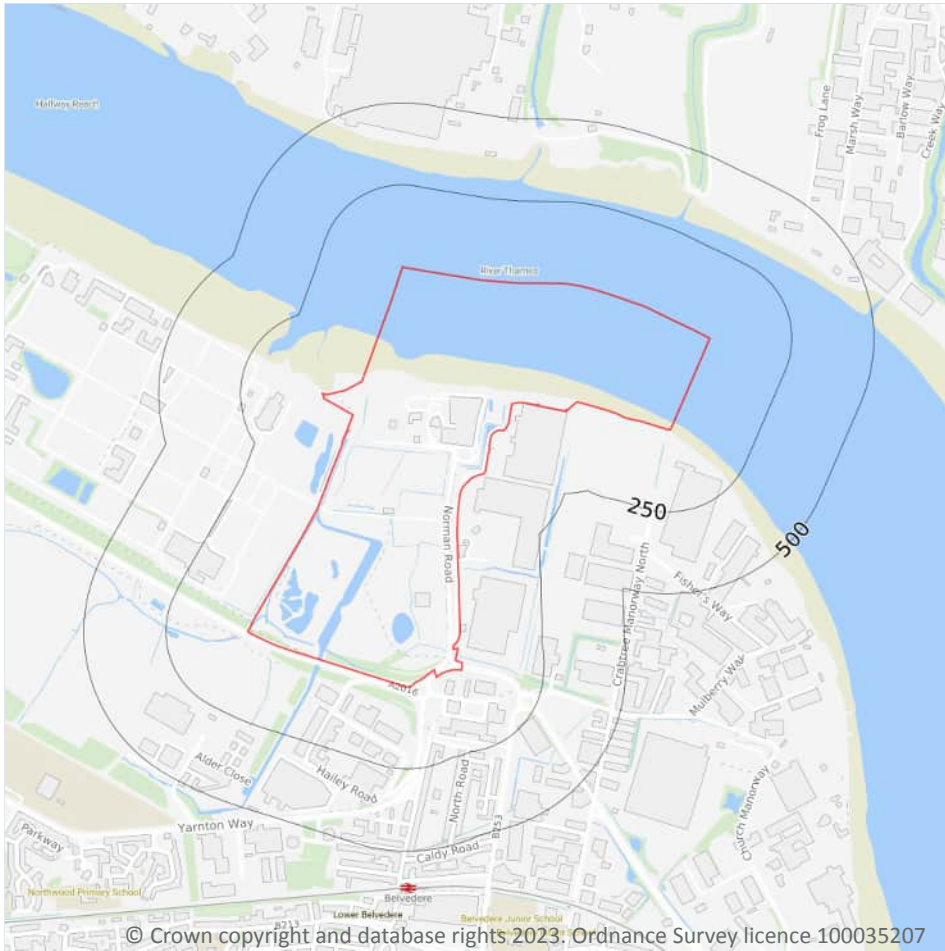
Records on site

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 Ground cavities and sinkholes



19.1 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.

19.2 Mining cavities

Records within 1000m

2

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.

Features are displayed on the Ground cavities and sinkholes map on [page 215 >](#)

ID	Location	Mine Address	Mineral	Data source	Publisher
-	940m S	Belvedere, Kent	Chalk	-	Chelsea Speleological Society
-	976m S	Belvedere, Kent	Chalk	-	Chelsea Speleological Society

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.

This data is sourced from Groundsure.



19.5 National karst database

Records within 500m

0

This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

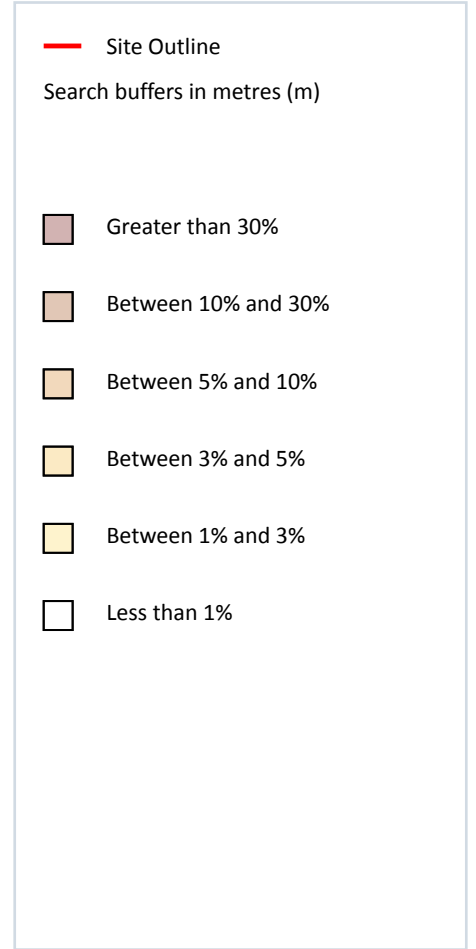
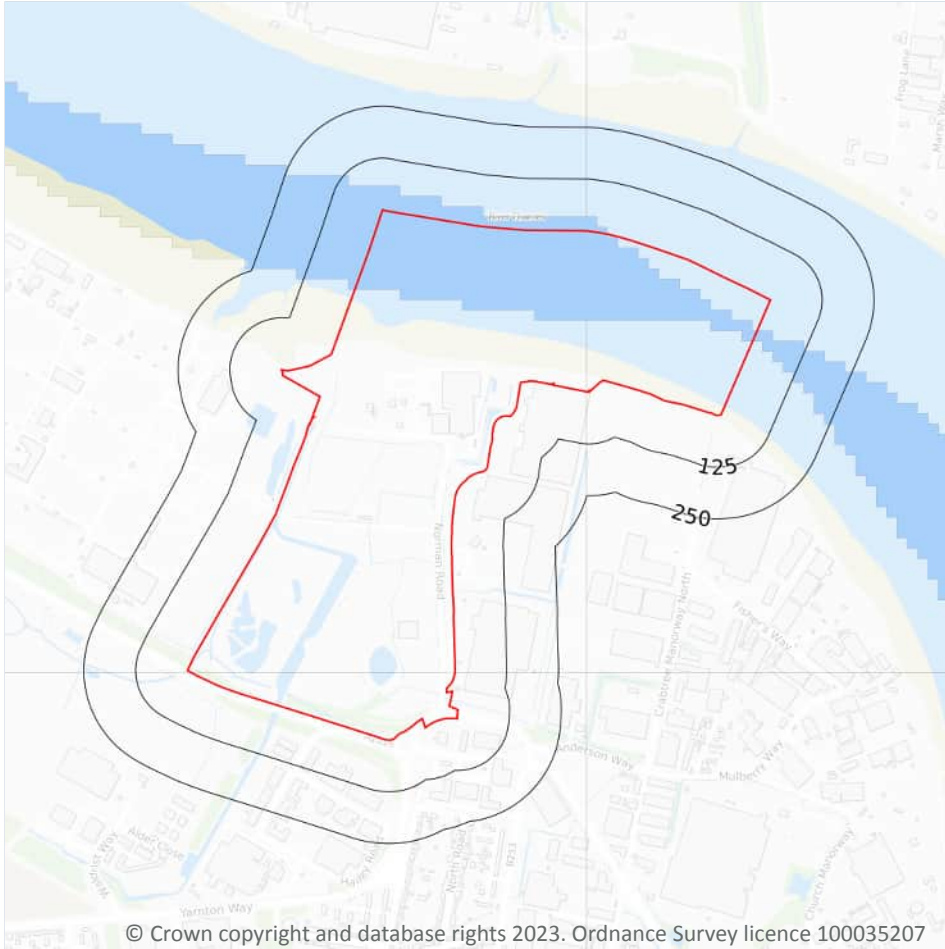
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.



20 Radon



20.1 Radon

Records on site

1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on [page 218 >](#)

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

This data is sourced from the British Geological Survey and UK Health Security Agency.



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

43

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 km². 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 km²; 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 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	120 - 180 mg/kg	45 - 60 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	120 - 180 mg/kg	45 - 60 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	120 - 180 mg/kg	45 - 60 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	120 - 180 mg/kg	45 - 60 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	120 - 180 mg/kg	45 - 60 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	120 - 180 mg/kg	45 - 60 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
On site	No data	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	No data	No data
On site	No data	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	No data	No data
On site	No data	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	No data	No data
On site	No data	No data	No data	No data	No data	No data	No data
On site	No data	No data	No data	No data	No data	No data	No data
On site	No data	No data	No data	No data	No data	No data	No data



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
37m SW	No data	No data	No data	No data	No data	No data	No data
37m SW	No data	No data	No data	No data	No data	No data	No data
37m SW	No data	No data	No data	No data	No data	No data	No data
37m SW	No data	No data	No data	No data	No data	No data	No data
37m SW	No data	No data	No data	No data	No data	No data	No data

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

132

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 km²).

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	13	2.3	122	84	1.6	93	89	31	24
On site	13	2.3	122	84	1.7	93	90	31	25
On site	14	2.5	125	86	1.4	91	80	32	22
On site	15	2.6	126	87	1.5	93	83	32	23
On site	15	2.6	128	88	1.4	90	77	31	22
On site	15	2.6	129	89	1.4	90	79	31	22
On site	15	2.6	352	242	1.3	73	138	34	21
On site	15	2.6	349	240	1.4	73	140	34	20
On site	16	2.8	125	86	1.1	91	70	33	20
On site	16	2.8	130	89	1.2	90	75	32	21
On site	16	2.8	128	88	1.4	90	77	31	22
On site	16	2.8	259	178	0.5	73	78	33	16
On site	16	2.8	361	248	1.1	71	126	33	23



Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	16	2.8	354	243	1.2	72	131	33	22
On site	16	2.8	370	254	1.3	74	139	34	23
On site	17	3	140	96	1.1	87	71	32	20
On site	17	3	220	151	0.6	77	73	33	16
On site	17	3	236	162	0.5	75	75	33	16
On site	17	3	230	158	0.6	75	74	33	16
On site	17	3	245	168	0.6	74	77	32	18
On site	17	3	347	238	1.1	72	120	33	22
On site	17	3	333	229	1	72	111	32	22
On site	17	3	383	263	1.2	75	134	34	27
On site	17	3	396	272	1.2	75	139	35	28
On site	17	3	392	269	1.3	74	141	35	26
On site	18	3.2	132	91	0.8	89	63	34	17
On site	18	3.2	162	111	0.6	84	63	34	16
On site	18	3.2	156	107	0.8	84	66	33	17
On site	18	3.2	135	93	1.2	87	67	31	20
On site	18	3.2	204	140	0.6	78	69	34	16
On site	18	3.2	196	135	0.6	79	70	33	17
On site	18	3.2	164	113	0.5	80	66	34	14
On site	18	3.2	339	233	0.9	71	107	32	24
On site	18	3.2	318	218	0.9	72	102	32	22
On site	18	3.2	220	151	1.1	78	86	32	19
On site	18	3.2	212	146	1.1	79	84	32	19
On site	18	3.2	422	290	1.3	77	145	36	31
On site	19	3.3	118	81	0.7	92	57	35	16
On site	19	3.3	151	104	0.6	86	58	35	15
On site	19	3.3	137	94	1.1	86	64	31	19



Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	19	3.3	156	107	0.5	86	55	37	14
On site	19	3.3	160	110	0.8	83	65	32	18
On site	19	3.3	117	80	0.5	86	58	35	12
On site	19	3.3	199	137	0.7	78	70	32	17
On site	19	3.3	289	199	0.8	72	88	31	22
On site	19	3.3	207	142	1	79	78	32	18
On site	19	3.3	200	137	1	79	77	32	18
On site	19	3.3	196	135	1	79	76	32	18
On site	19	3.3	194	133	1	80	76	32	18
On site	19	3.3	302	207	0.9	72	96	32	22
On site	19	3.3	399	274	1.2	77	133	35	31
On site	19	3.3	426	293	1.2	78	142	36	34
On site	20	3.5	123	85	0.6	91	53	36	15
On site	20	3.5	153	105	1.1	87	68	31	20
On site	20	3.5	125	86	0.5	93	47	38	13
On site	20	3.5	155	106	1	83	65	31	19
On site	20	3.5	159	109	1.1	83	68	31	19
On site	20	3.5	93	64	0.5	93	51	37	11
On site	20	3.5	176	121	0.7	80	64	32	17
On site	20	3.5	164	113	1	82	68	31	19
On site	20	3.5	189	130	0.9	79	69	31	18
On site	20	3.5	178	122	1	81	70	31	18
On site	20	3.5	371	255	1.1	76	121	34	30
On site	21	3.7	99	68	0.5	99	42	39	12
On site	21	3.7	104	71	0.5	97	44	39	13
On site	21	3.7	96	66	0.6	97	37	37	13
On site	21	3.7	103	71	0.5	100	41	40	12



Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	21	3.7	111	76	0.5	97	43	39	12
On site	21	3.7	123	85	0.5	93	47	38	12
On site	21	3.7	94	65	0.6	100	38	38	13
On site	21	3.7	107	74	0.5	99	43	40	12
On site	21	3.7	90	62	0.5	97	45	38	12
On site	21	3.7	160	110	1	82	64	31	18
On site	21	3.7	167	115	1	82	66	31	18
On site	21	3.7	179	123	0.9	80	66	31	18
On site	21	3.7	176	121	1	81	68	31	18
On site	21	3.7	380	261	1.1	78	122	35	33
On site	21	3.7	418	287	1.2	80	135	37	36
On site	22	3.8	107	74	0.5	99	47	38	14
On site	22	3.8	98	67	0.5	100	39	40	11
On site	22	3.8	146	100	1	84	58	30	18
On site	22	3.8	150	103	1	83	61	30	18
On site	22	3.8	171	117	0.9	80	61	31	17
On site	22	3.8	163	112	1	81	62	31	18
On site	22	3.8	176	121	0.9	80	66	31	18
On site	22	3.8	589	405	1.4	84	201	43	53
On site	23	4	96	66	0.5	106	40	41	13
On site	23	4	91	63	0.5	105	39	42	13
On site	23	4	92	63	0.5	106	38	41	13
On site	23	4	86	59	0.5	105	37	42	12
On site	23	4	91	63	0.5	105	37	41	12
On site	23	4	86	59	0.5	105	36	42	12
On site	23	4	84	58	0.4	104	36	41	11
On site	23	4	85	58	0.4	103	37	41	11



Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	23	4	90	62	0.5	106	37	41	12
On site	23	4	88	60	0.5	105	37	41	12
On site	23	4	155	106	1	82	59	30	18
On site	24	4.2	82	56	0.4	105	36	42	11
On site	24	4.2	83	57	0.4	105	36	42	11
On site	24	4.2	160	110	0.9	81	57	30	17
On site	25	4.4	95	65	0.5	106	39	41	12
On site	25	4.4	145	100	0.9	83	54	30	17
On site	25	4.4	152	104	0.9	82	53	30	17
On site	25	4.4	160	110	0.9	81	56	30	17
On site	26	4.6	152	104	0.9	81	52	30	17
On site	27	4.7	147	101	0.9	82	50	30	17
On site	29	5.1	150	103	0.8	81	48	30	16
2m N	21	3.7	159	109	1	87	69	31	20
4m SW	23	4	105	72	0.5	102	45	39	13
6m SW	23	4	92	63	0.6	106	36	41	12
11m S	19	3.3	91	63	0.5	87	55	34	12
11m S	20	3.5	85	58	0.5	97	47	37	12
16m N	20	3.5	171	117	1	82	69	31	19
17m S	18	3.2	143	98	0.5	79	72	33	15
18m E	19	3.3	207	142	0.8	78	74	32	18
20m S	17	3	197	135	0.5	75	78	33	17
20m S	17	3	257	177	0.5	73	78	33	17
20m E	15	2.6	361	248	1.3	73	138	34	21
23m S	17	3	255	175	0.5	74	76	33	17
24m E	15	2.6	369	254	1.2	72	137	34	22
27m NE	21	3.7	459	315	1.3	82	149	38	42



Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
28m N	20	3.5	180	124	1	81	72	31	18
30m NW	18	3.2	146	100	1.2	89	74	31	21
33m NE	19	3.3	193	133	1	80	77	32	19
36m SW	23	4	92	63	0.6	106	36	41	12
37m SW	24	4.2	111	76	0.5	107	45	41	14
37m S	20	3.5	91	63	0.6	96	42	36	13
37m SW	23	4	102	70	0.5	107	44	42	14
38m E	18	3.2	283	194	0.6	72	82	32	20
38m E	16	2.8	380	261	1.2	75	139	34	23
40m SW	25	4.4	99	68	0.5	106	40	41	12
40m S	21	3.7	105	72	0.6	93	39	35	16

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

5

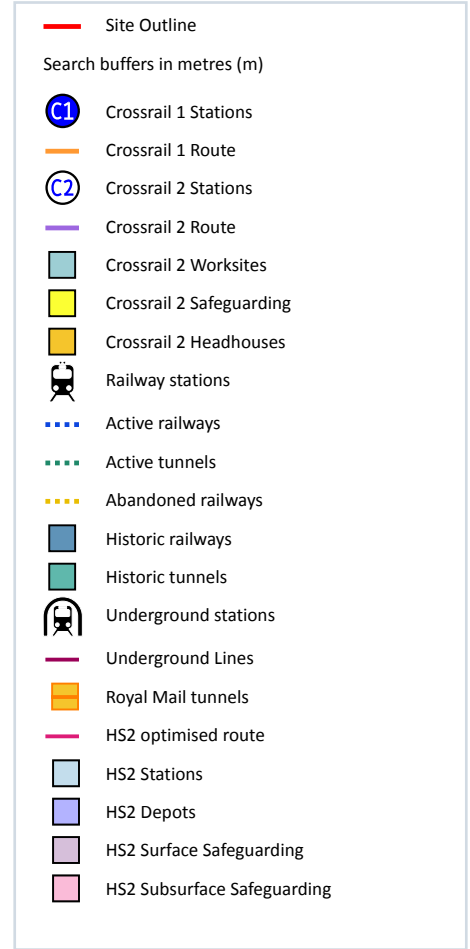
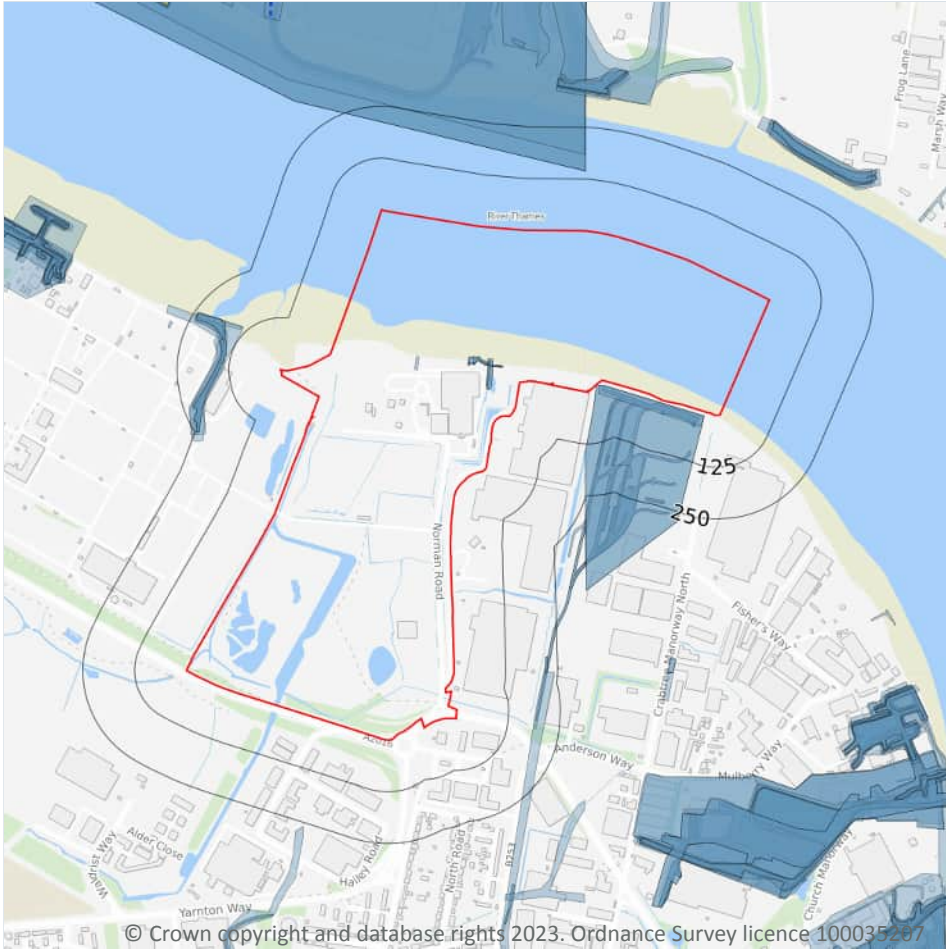
The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

Location	Arsenic (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Lead (mg/kg)	Tin (mg/kg)	Sample Type
On site	12.5	1.8	93.4	93.1	31.2	120.0	25.4	Topsoil
On site	16.4	0.5	73.0	78.4	33.0	260.0	16.1	Topsoil
On site	23.8	0.4	104.5	34.9	41.8	80.1	10.7	Topsoil
On site	29.5	0.8	80.7	46.7	29.5	149.1	16.0	Topsoil
6m E	14.9	1.4	73.6	140.4	34.4	346.0	19.7	Topsoil

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



22.1 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.

22.2 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.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

43

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 228 >](#)

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1920	2500
On site	Railway Sidings	1957	2500
On site	Railway Sidings	1897	2500
On site	Railway Sidings	1963	1250
On site	Railway Sidings	1957	1250
On site	Railway Sidings	1898	10560
On site	Railway Sidings	1973	10000
On site	Railway Sidings	1967	10560
On site	Railway Sidings	1895	10560
6m E	Railway Sidings	1955	10560
12m E	Railway Sidings	1963	2500
12m E	Railway Sidings	1975	1250
12m E	Railway Sidings	1959	1250
51m E	Railway Sidings	1992	1250
54m E	Railway Sidings	1992	1250
127m NW	Railway Sidings	1895	10560
128m E	Railway Sidings	1992	1250



Location	Land Use	Year of mapping	Mapping scale
130m E	Railway Sidings	1975	1250
131m E	Railway Sidings	1992	1250
136m W	Railway Sidings	1895	10560
136m NW	Railway Sidings	1897	2500
136m NW	Railway Sidings	1899	10560
140m W	Railway Sidings	1897	2500
145m NE	Railway Sidings	1983	10000
145m NE	Railway Sidings	1974	10000
145m NE	Railway Sidings	1969	10560
150m NW	Railway Sidings	1897	2500
158m E	Railway Sidings	1975	1250
158m E	Railway Sidings	1959	1250
163m E	Railway Sidings	1959	1250
175m E	Railway Sidings	1970	1250
177m E	Railway Sidings	1984	1250
184m NE	Railway Sidings	1949	10560
187m S	Railway Sidings	1974	10000
189m S	Railway Sidings	1982	1250
192m S	Railway Sidings	1985	1250
198m E	Railway Sidings	1997	1250
218m SE	Railway Sidings	1957	1250
219m SE	Railway Sidings	1963	1250
220m SE	Railway Sidings	1957	2500
235m E	Railway Sidings	1970	1250
236m E	Railway Sidings	1984	1250
237m E	Railway Sidings	1997	1250

This data is sourced from Ordnance Survey/Groundsure.



22.5 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.

22.6 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.

22.7 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.

22.8 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.

22.9 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.



22.10 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.



Data providers

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Report Ref: GS-QCE-212-D95-XTT
Grid Ref: 549740, 180476

Map Name: County Series

Map date: 1866-1869

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1866
Revised 1866
Edition N/A
Copyright N/A
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Surveyed 1863
Revised N/A
Edition 1869
Copyright N/A
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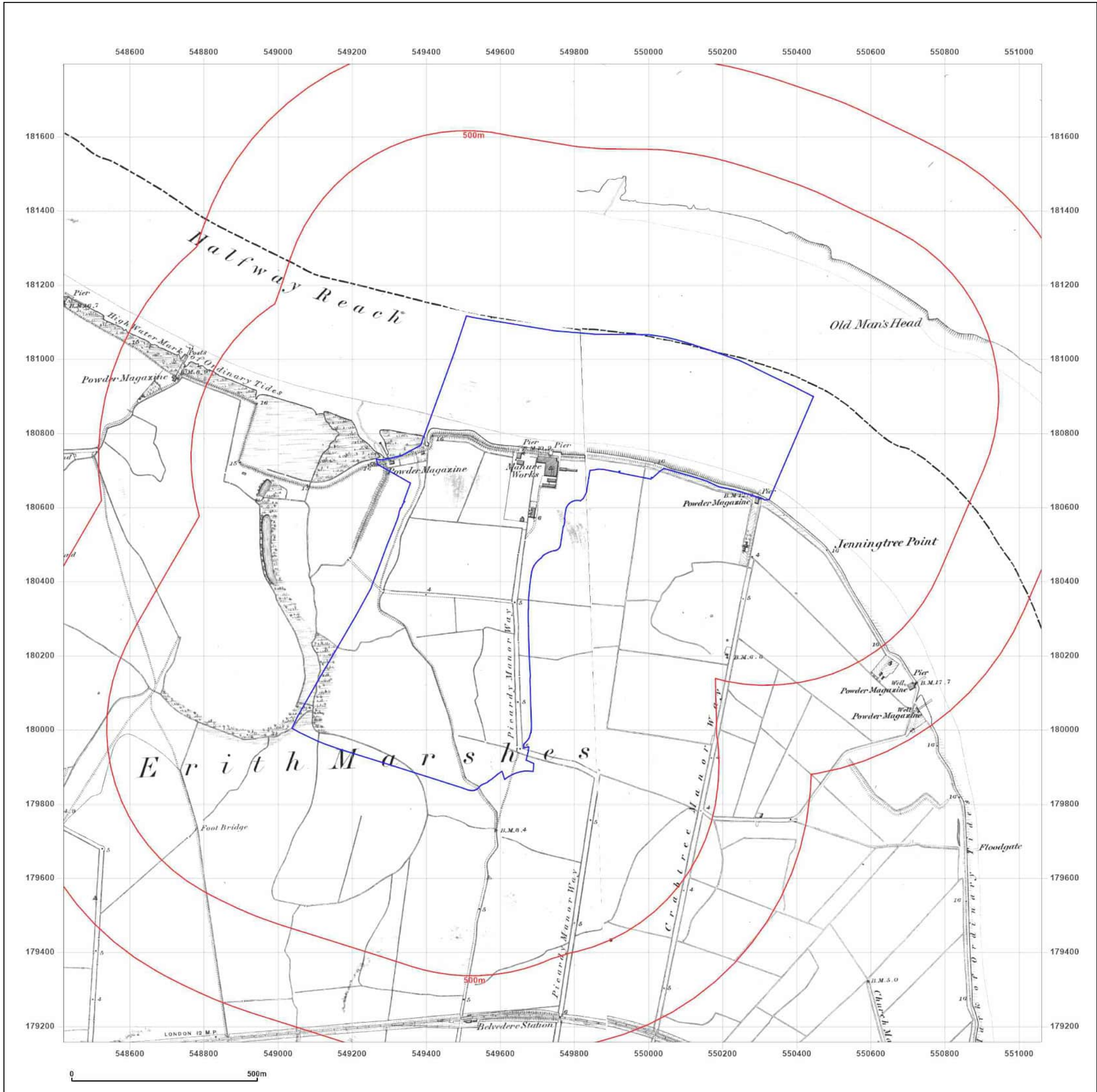


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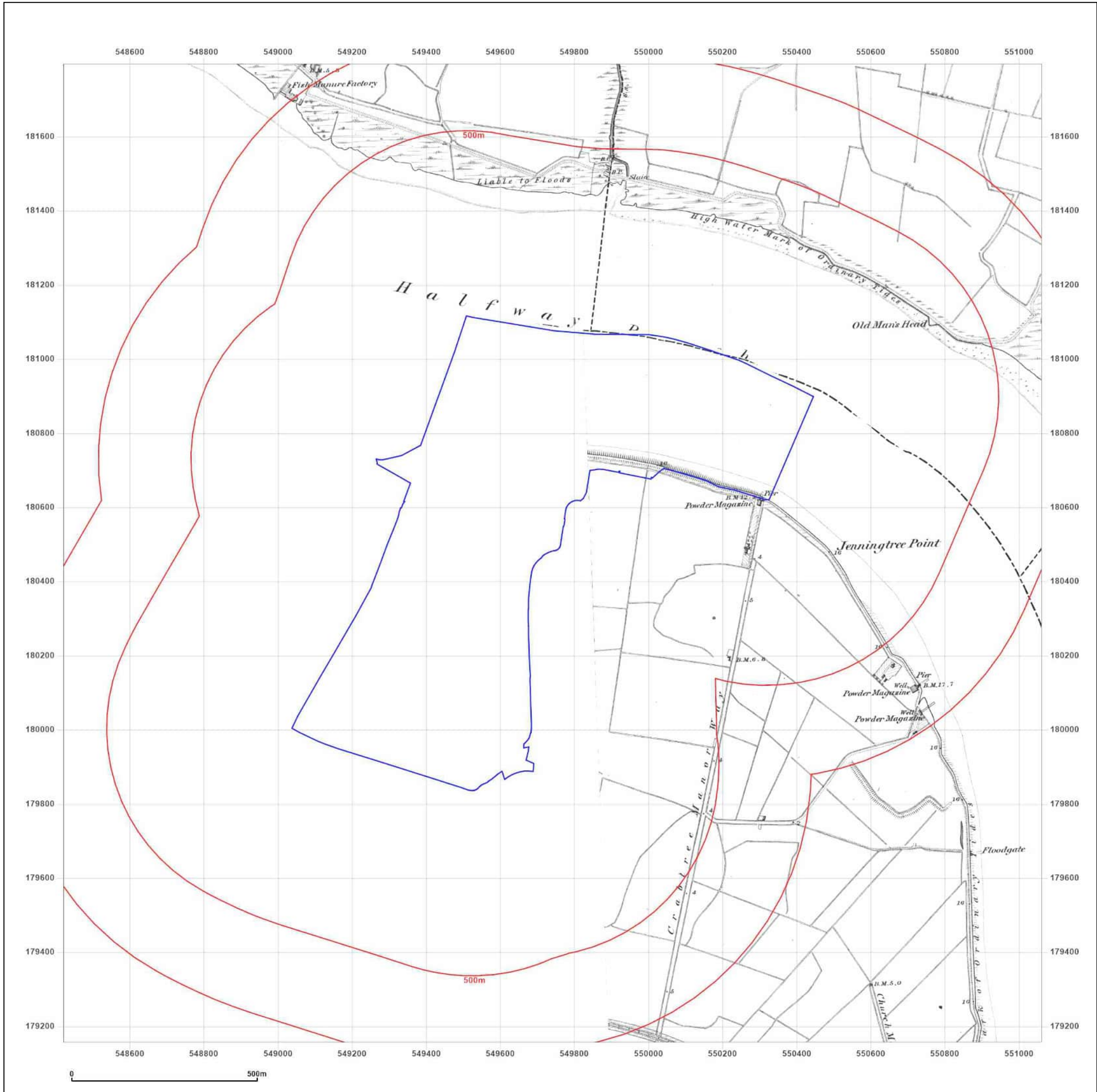
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Map Name: County Series

Map date: 1866-1869

Scale: 1:10,560

Printed at: 1:10,560



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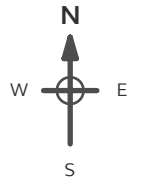
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Map Name: County Series
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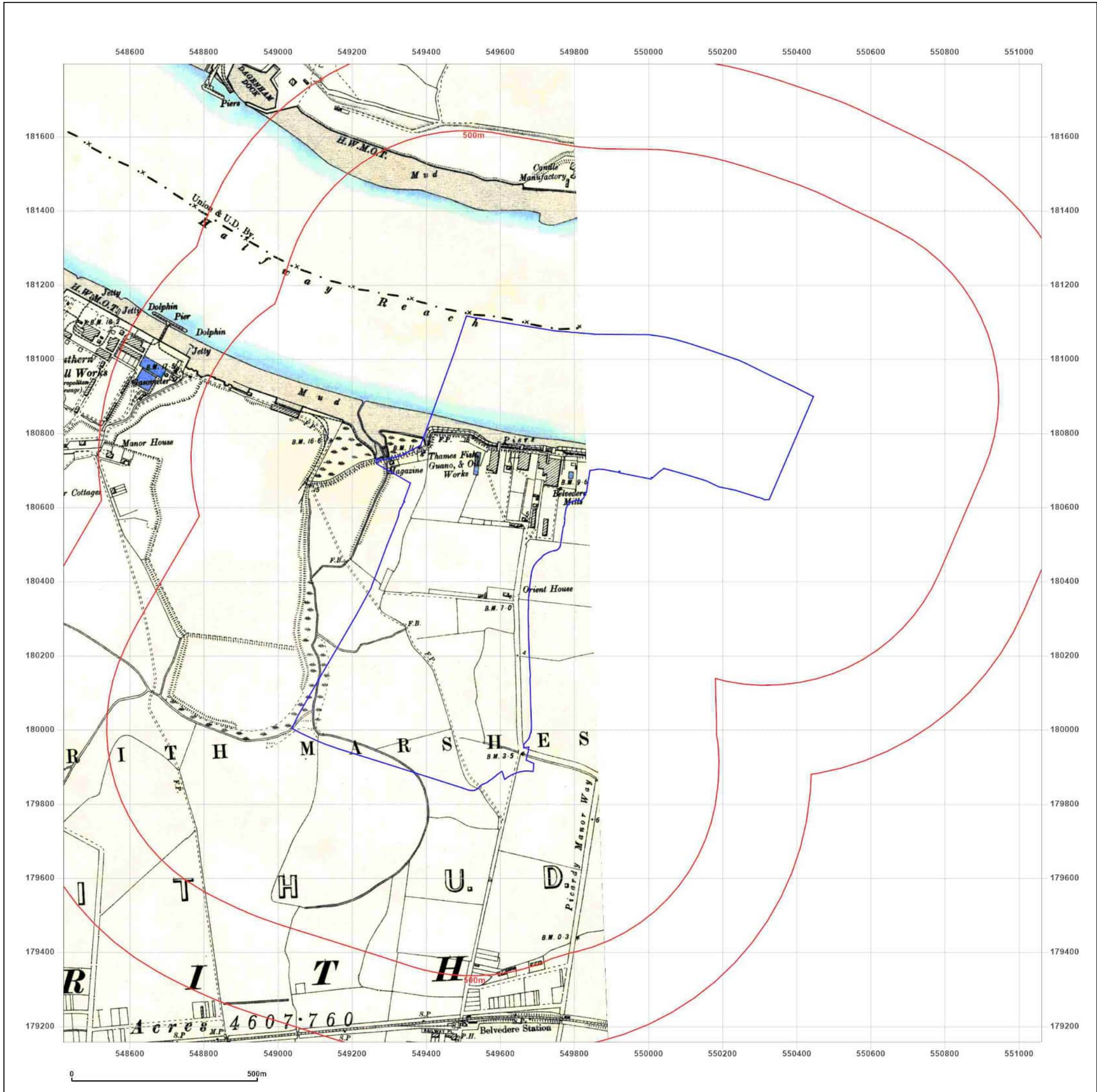
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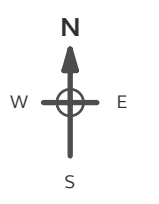
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Grid Ref: 549740, 180476

Map Name: County Series

Map date: 1895

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Printed at: 1:10,560



Surveyed 1866
Revised 1895
Edition N/A
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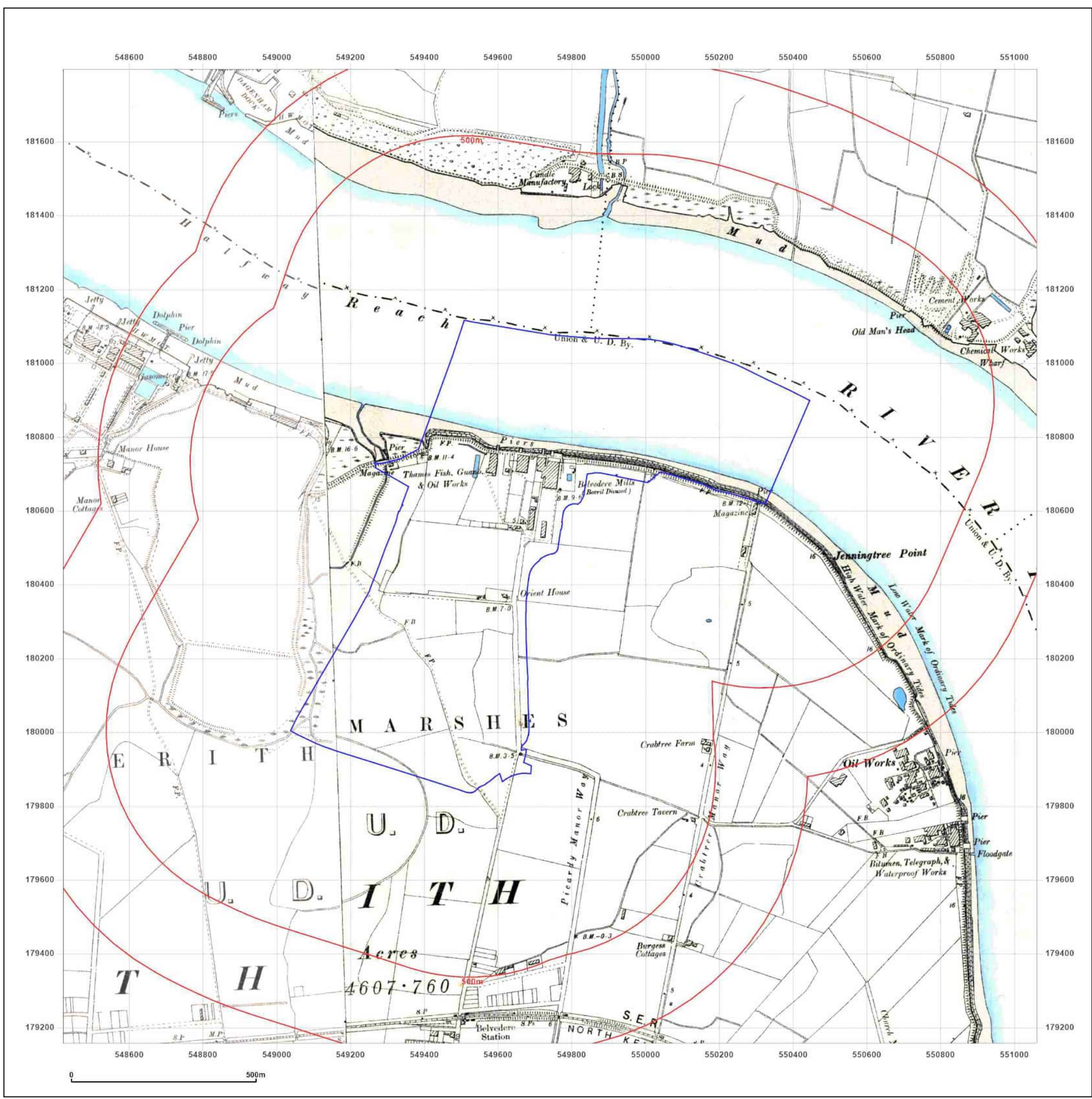


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Report Ref: GS-QCE-212-D95-XTT
Grid Ref: 549740, 180476

Map Name: County Series

Map date: 1895

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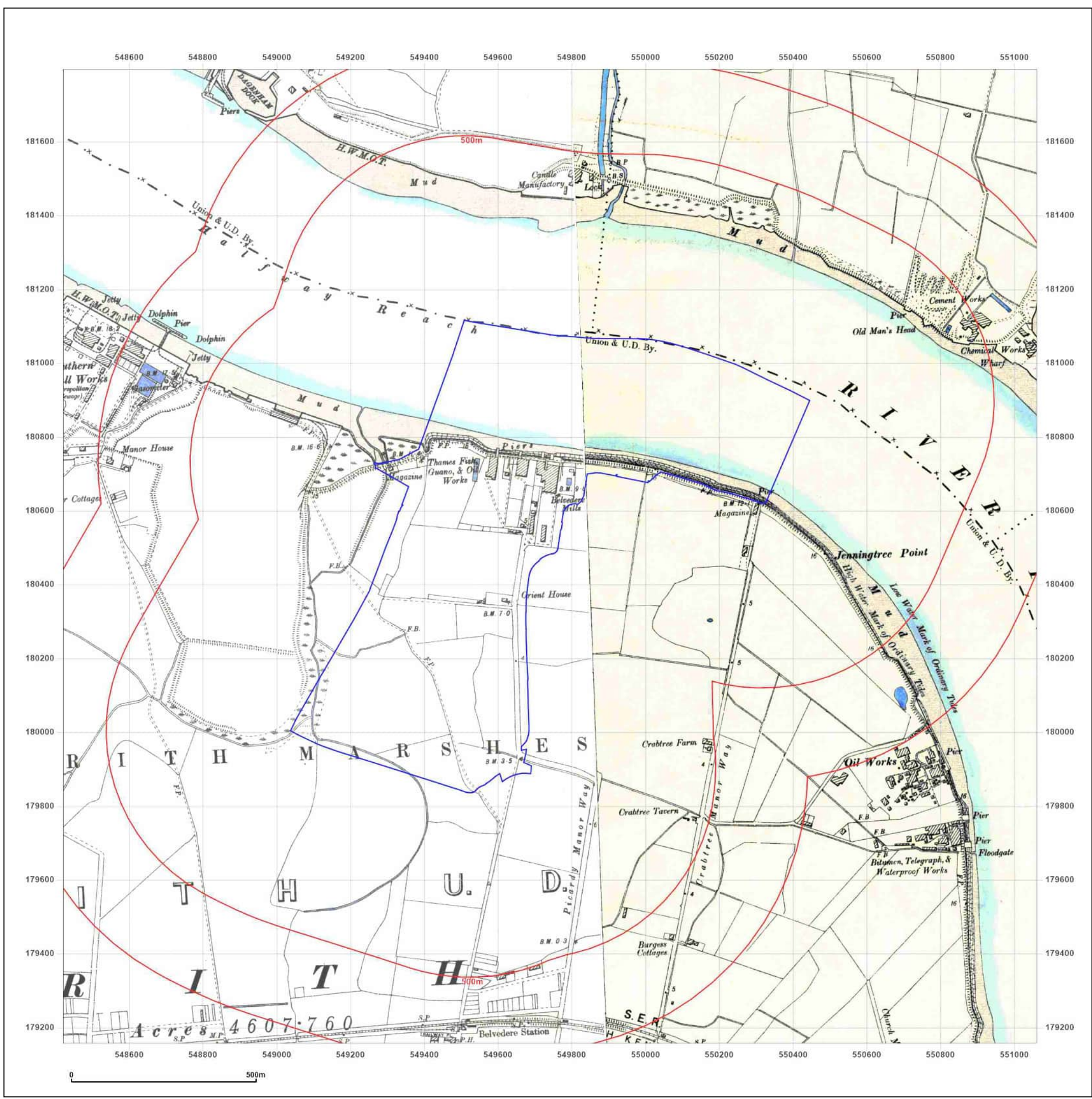


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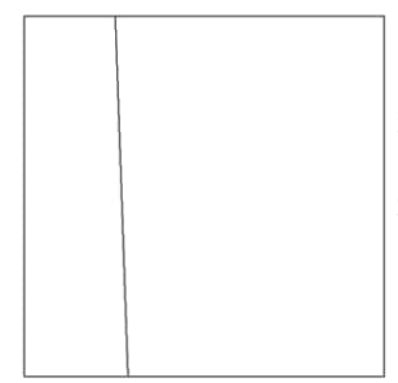
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Map Name: County Series

Map date: 1895

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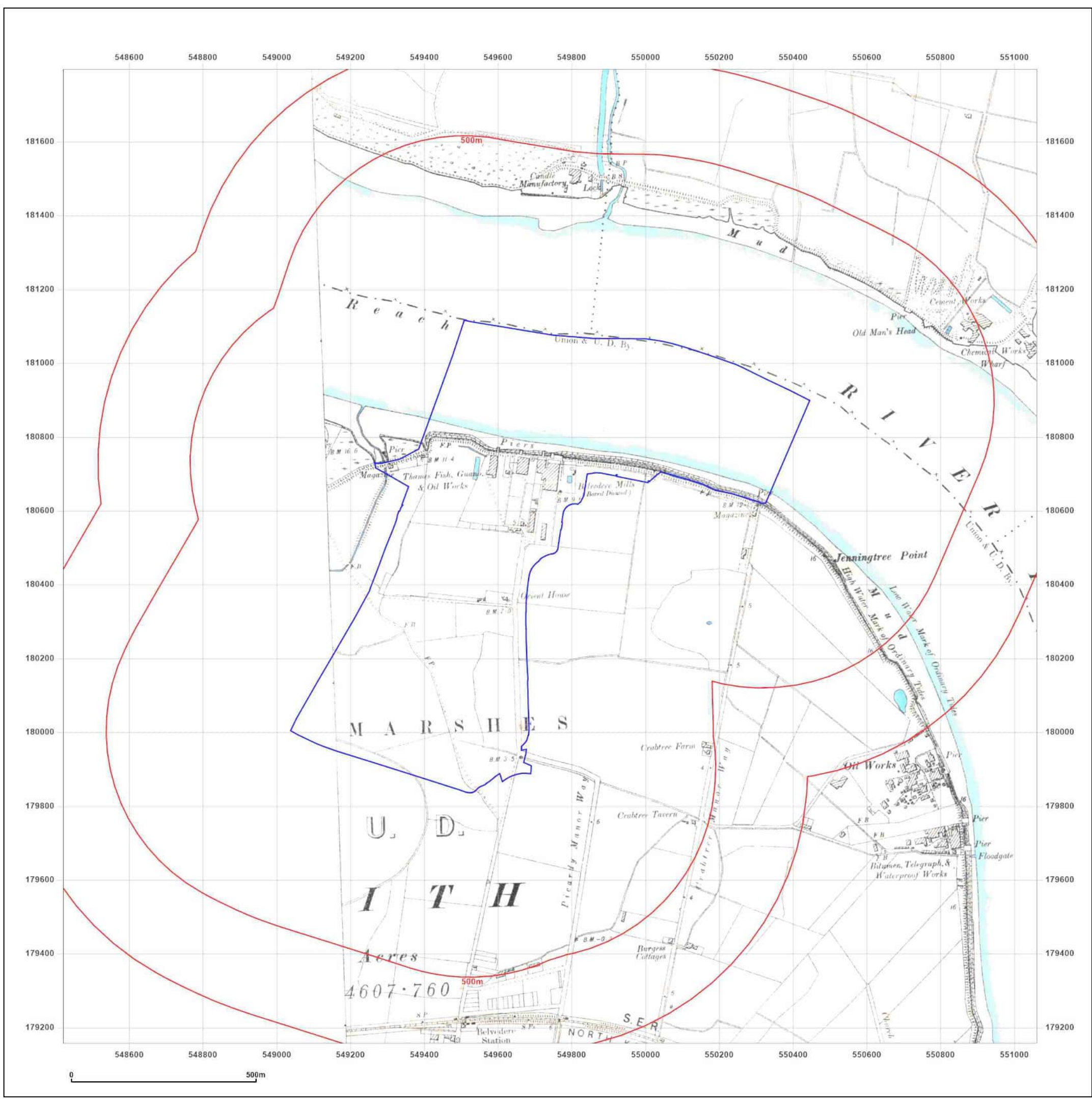


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT
Grid Ref: 549740, 180476

Map Name: County Series

Map date: 1895-1899

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1866 Revised 1895 Edition N/A Copyright N/A Levelled N/A	Surveyed 1863 Revised 1895 Edition N/A Copyright N/A Levelled N/A
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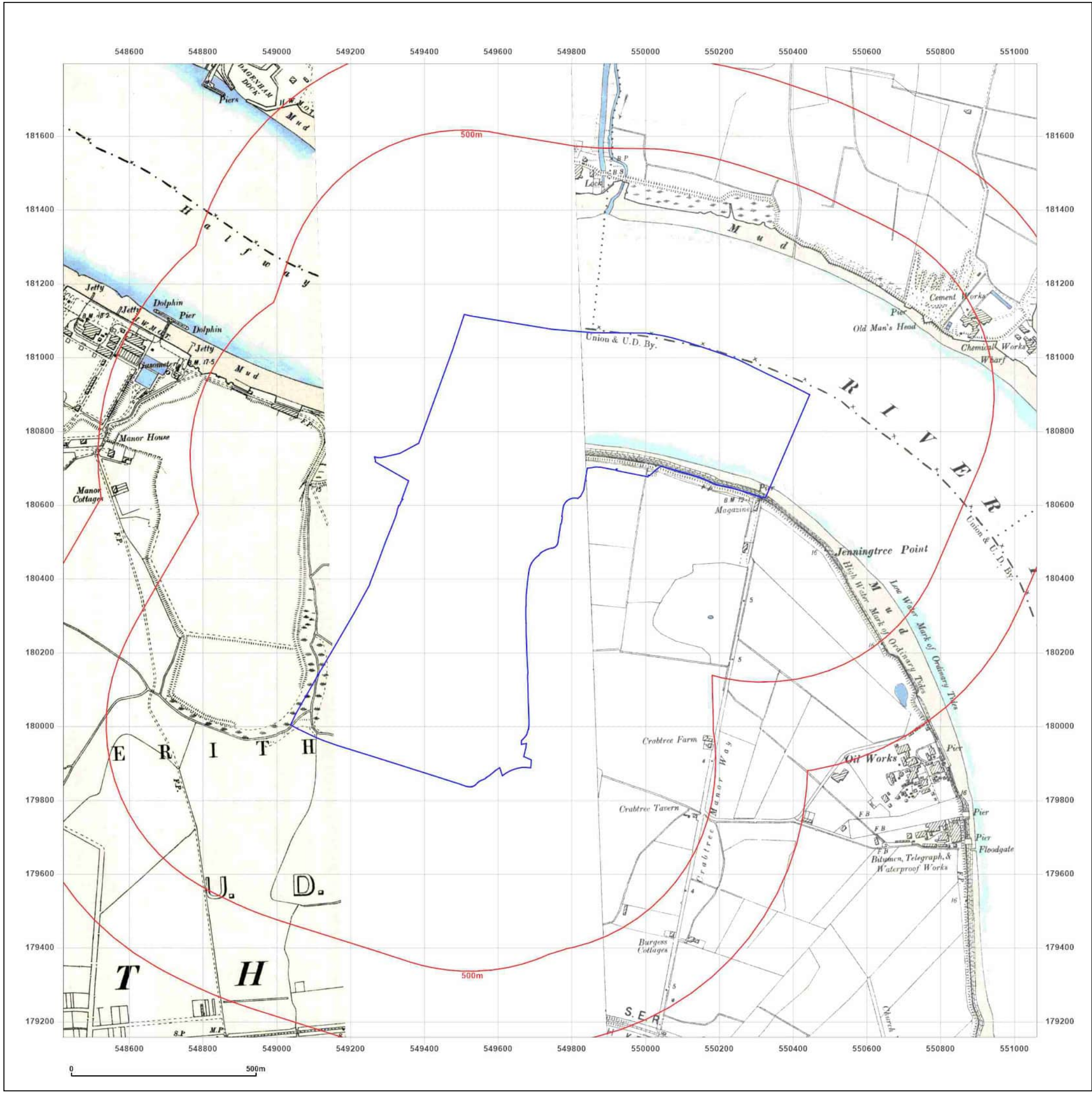


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620791927

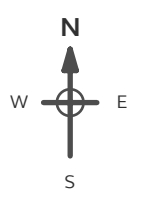
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Report Ref: GS-QCE-212-D95-XTT
Grid Ref: 549740, 180476

Map Name: County Series

Map date: 1907

Scale: 1:10,560

Printed at: 1:10,560



<p>Surveyed 1863 Revised 1907 Edition N/A Copyright N/A Levelled N/A</p>	<p>Surveyed 1863 Revised 1907 Edition N/A Copyright N/A Levelled N/A</p>
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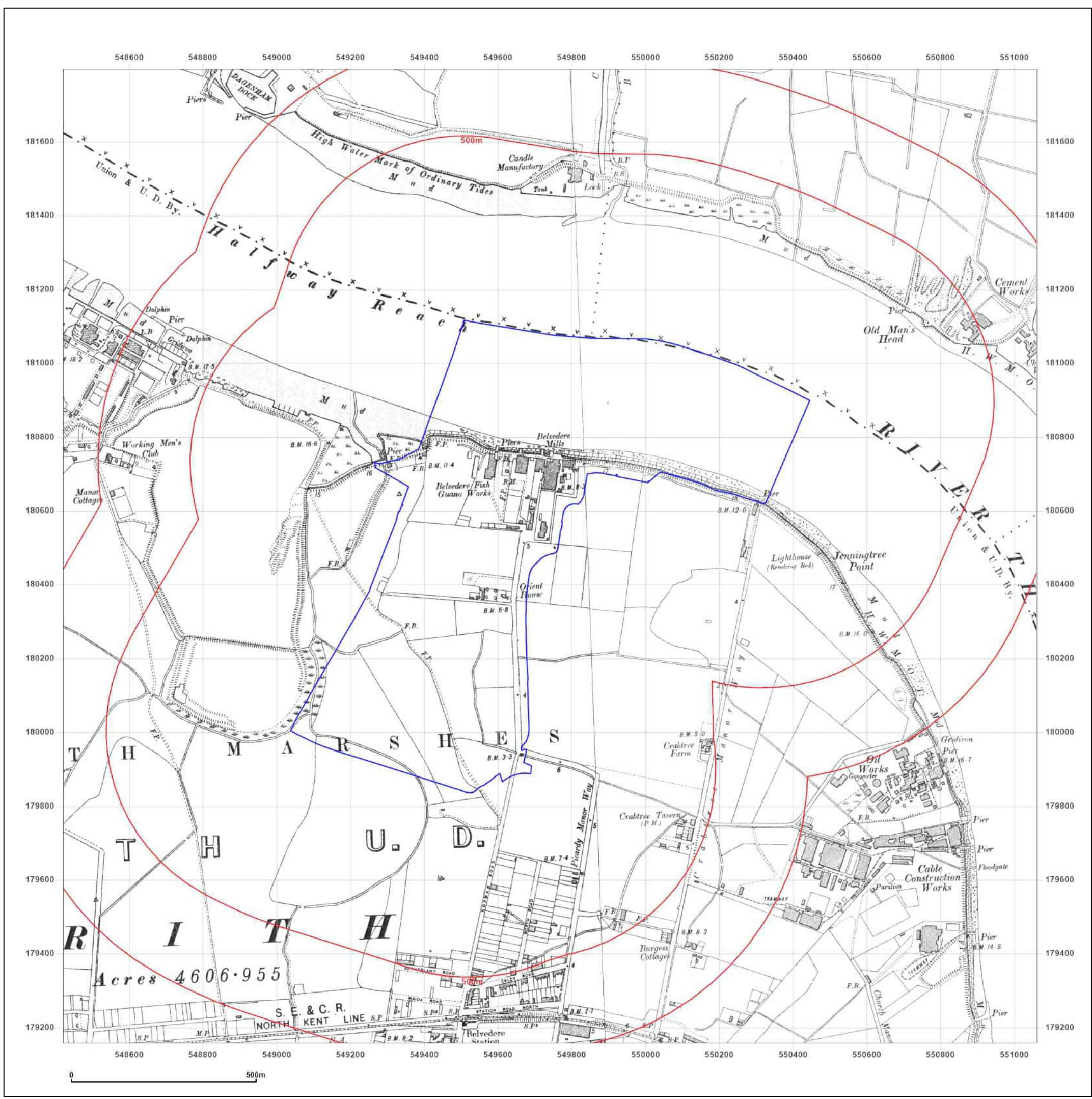


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Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT
Grid Ref: 549740, 180476

Map Name: County Series

Map date: 1907

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1863
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A

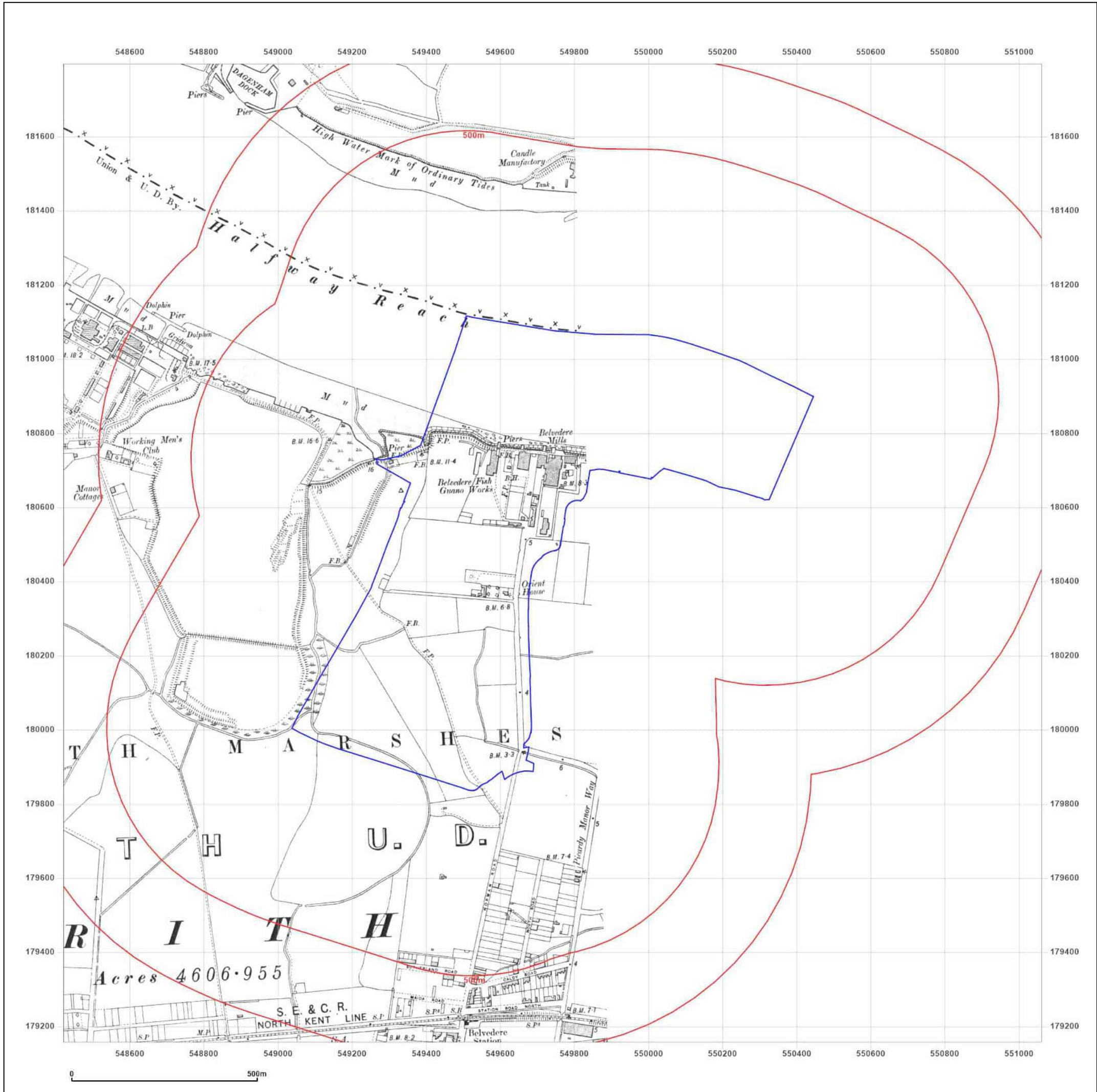


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Production date: 26 October 2023

Map legend available at:
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Site Details:

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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT
Grid Ref: 549740, 180476

Map Name: County Series

Map date: 1915

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1864
Revised 1915
Edition N/A
Copyright N/A
Levelled N/A

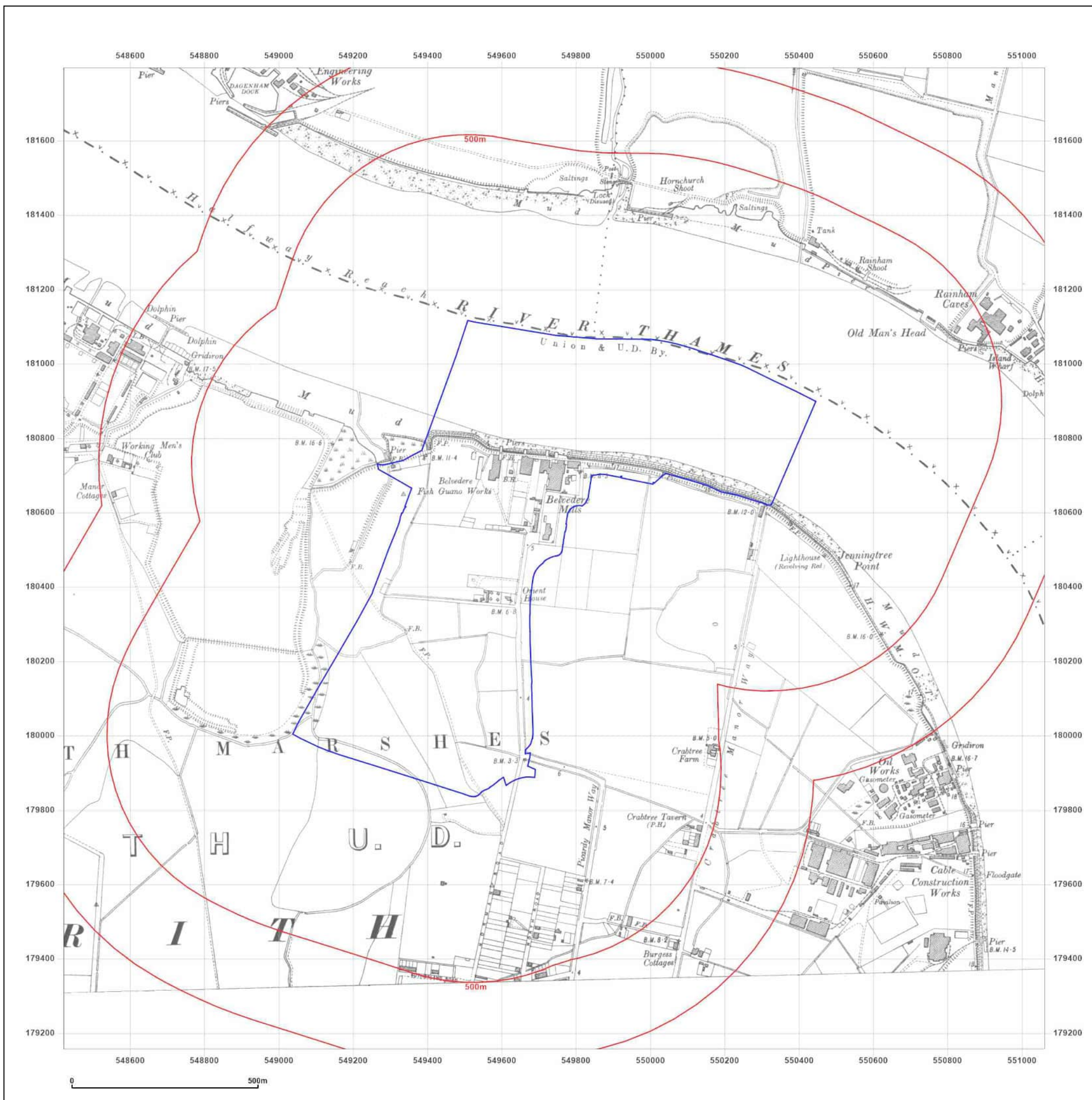


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Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT
Grid Ref: 549740, 180476

Map Name: County Series

Map date: 1918-1921

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1918
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1864
Revised 1921
Edition N/A
Copyright N/A
Levelled N/A



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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT
Grid Ref: 549740, 180476

Map Name: County Series

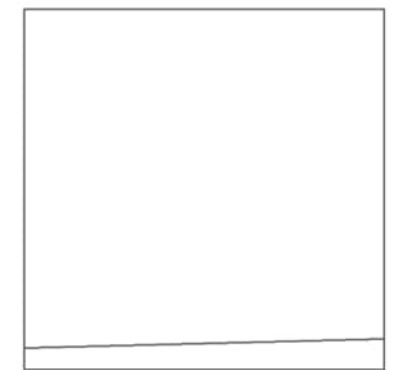
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Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1864
Revised 1921
Edition N/A
Copyright N/A
Levelled N/A

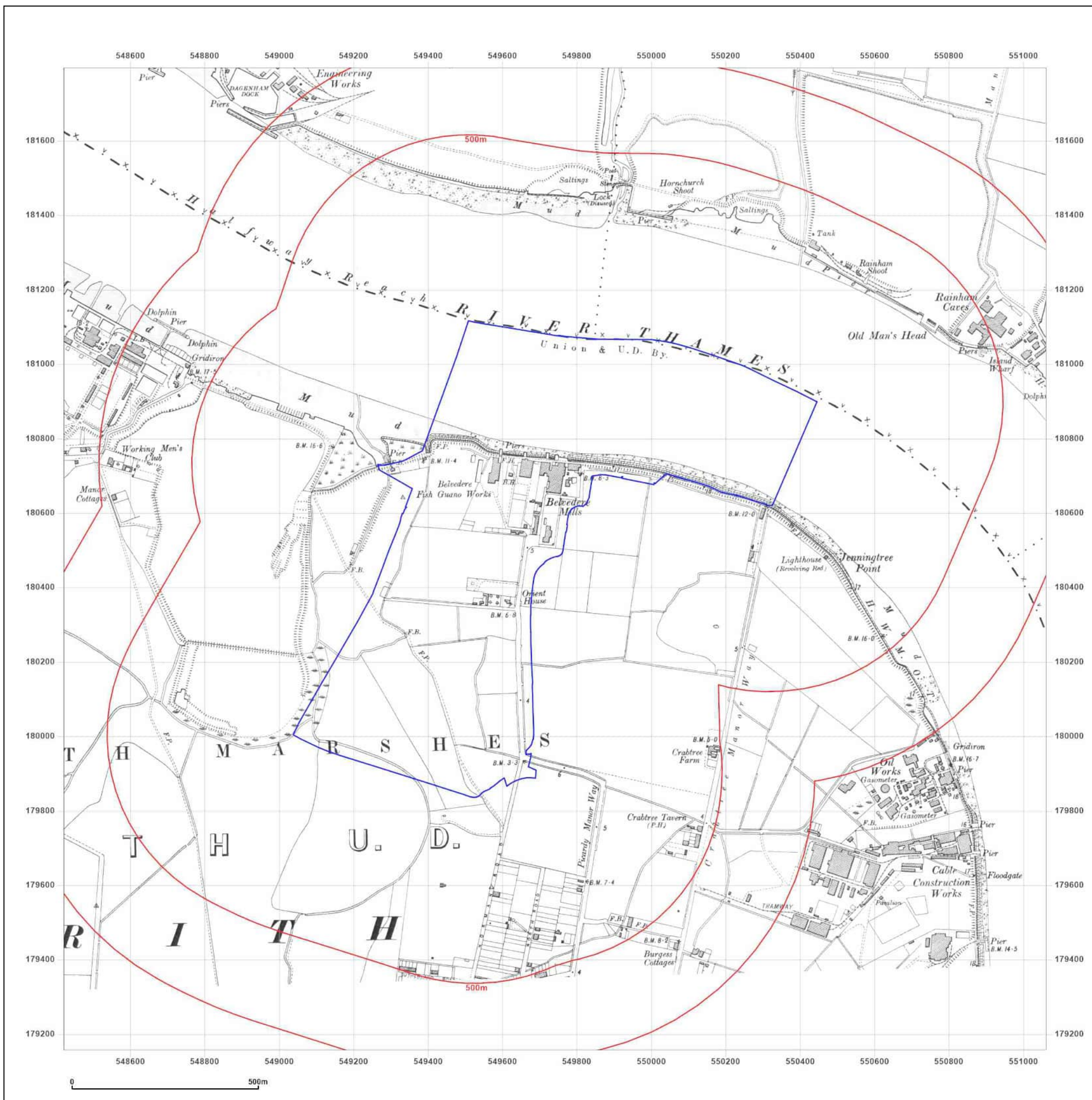


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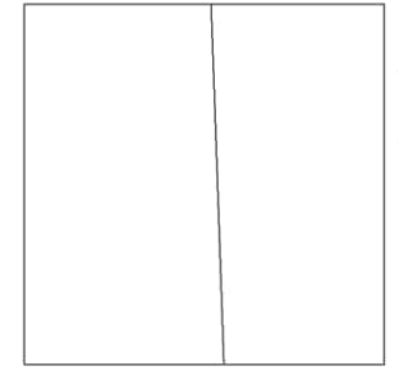
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Report Ref: GS-QCE-212-D95-XTT
Grid Ref: 549740, 180476

Map Name: County Series

Map date: 1931

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1863
Revised 1931
Edition N/A
Copyright N/A
Levelled N/A

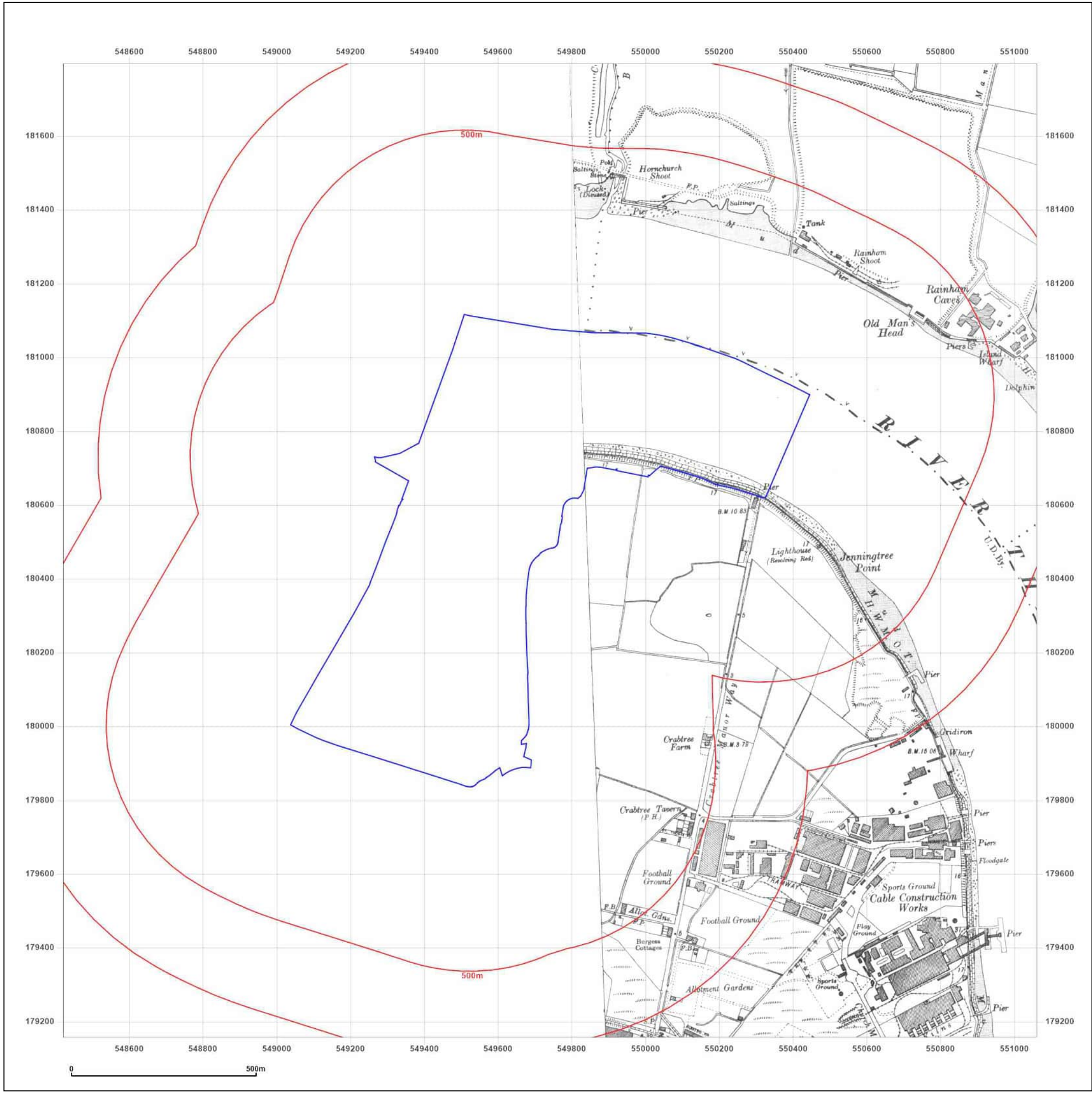


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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT
Grid Ref: 549740, 180476

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1863
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1863
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

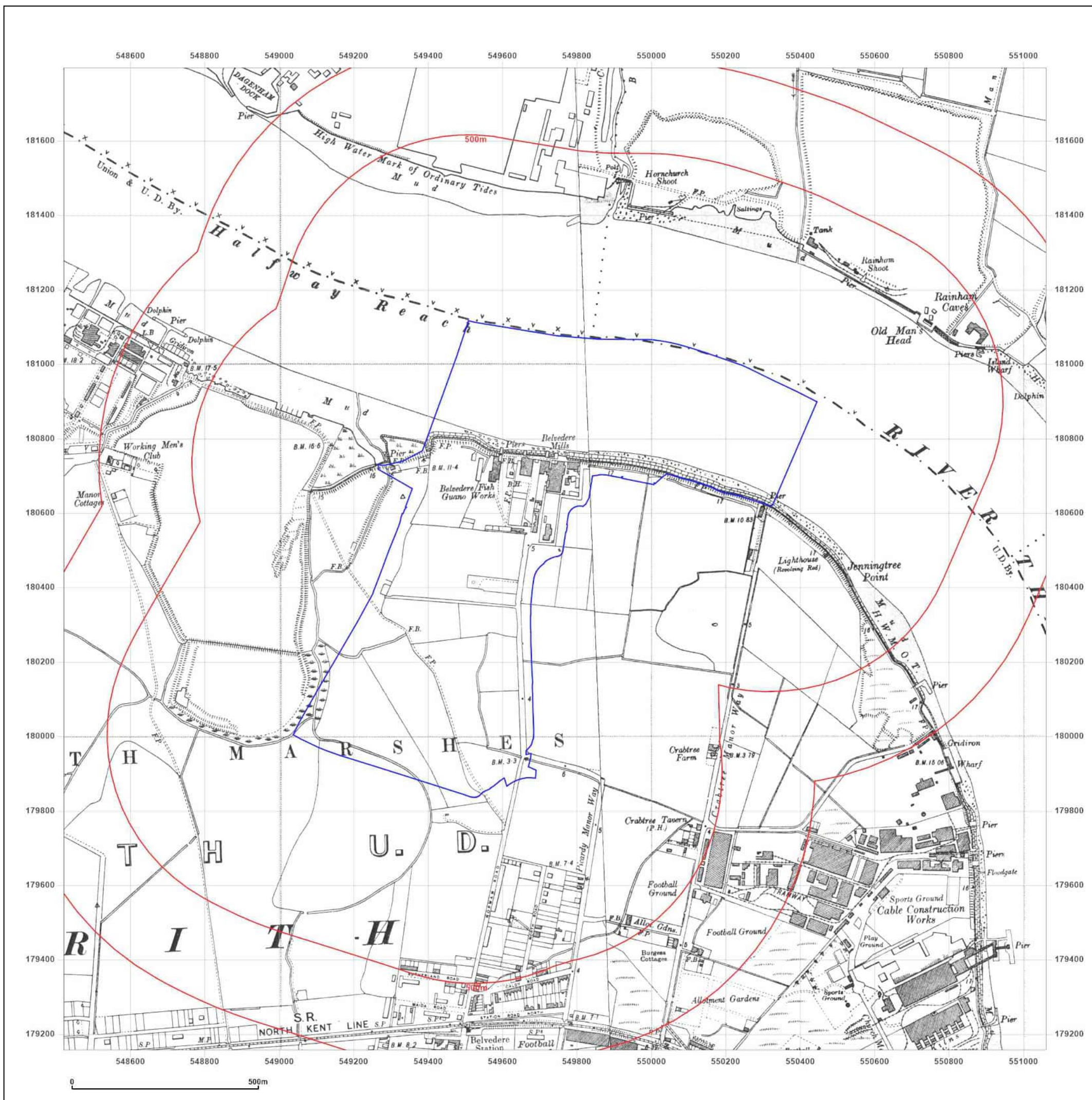


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Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT
Grid Ref: 549740, 180476

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1864
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

Surveyed 1864
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

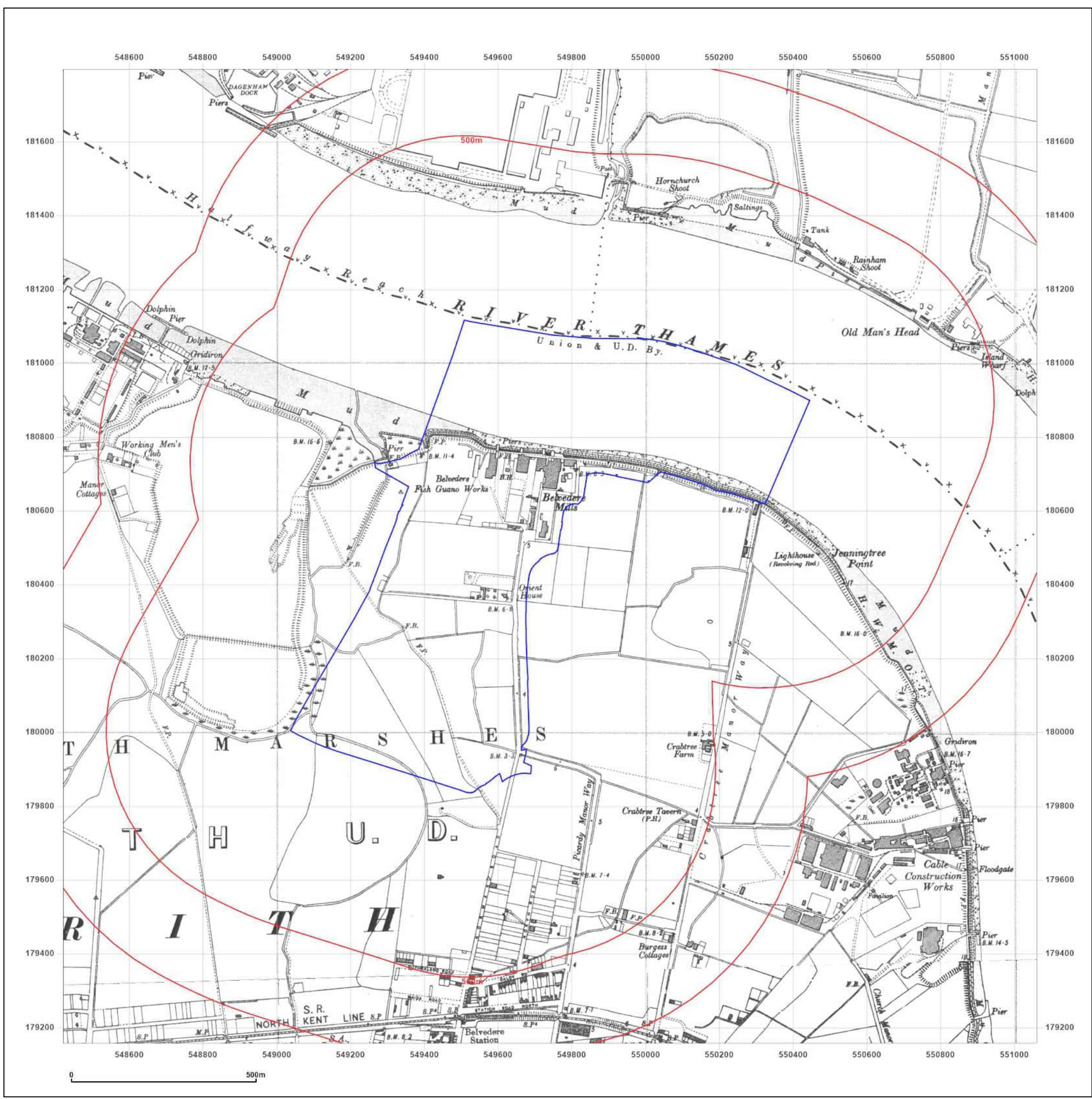


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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT
Grid Ref: 549740, 180476

Map Name: Provisional

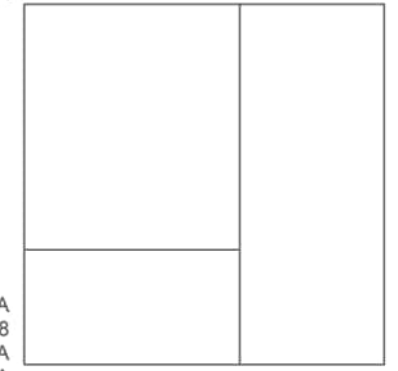
Map date: 1948-1950

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1949
Edition 1950
Copyright N/A
Levelled N/A



Surveyed N/A
Revised 1948
Edition N/A
Copyright N/A
Levelled N/A

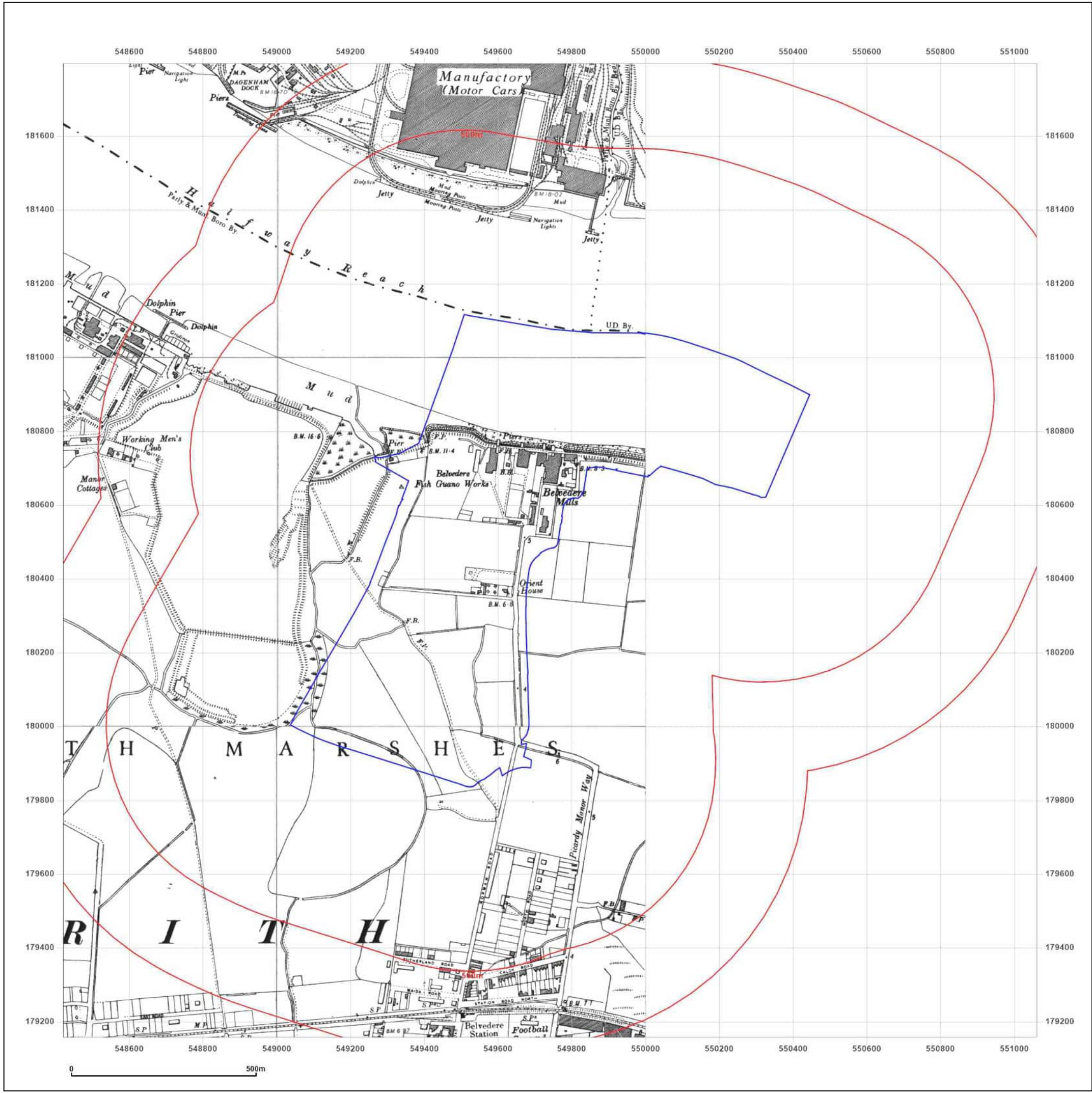


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Production date: 26 October 2023

Map legend available at:
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Site Details:

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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT
Grid Ref: 549740, 180476

Map Name: Provisional

Map date: 1966-1969

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1969
Revised 1969
Edition N/A
Copyright N/A
Levelled N/A

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

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

Surveyed 1967
Revised 1967
Edition N/A
Copyright N/A
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Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT
Grid Ref: 549740, 180476

Map Name: National Grid

Map date: 1973-1974

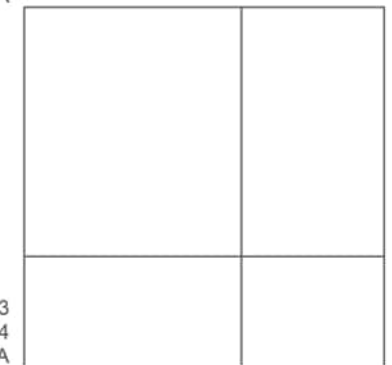
Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1973
Revised 1974
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1971
Revised 1973
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1973
Revised 1974
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1972
Revised 1973
Edition N/A
Copyright N/A
Levelled N/A

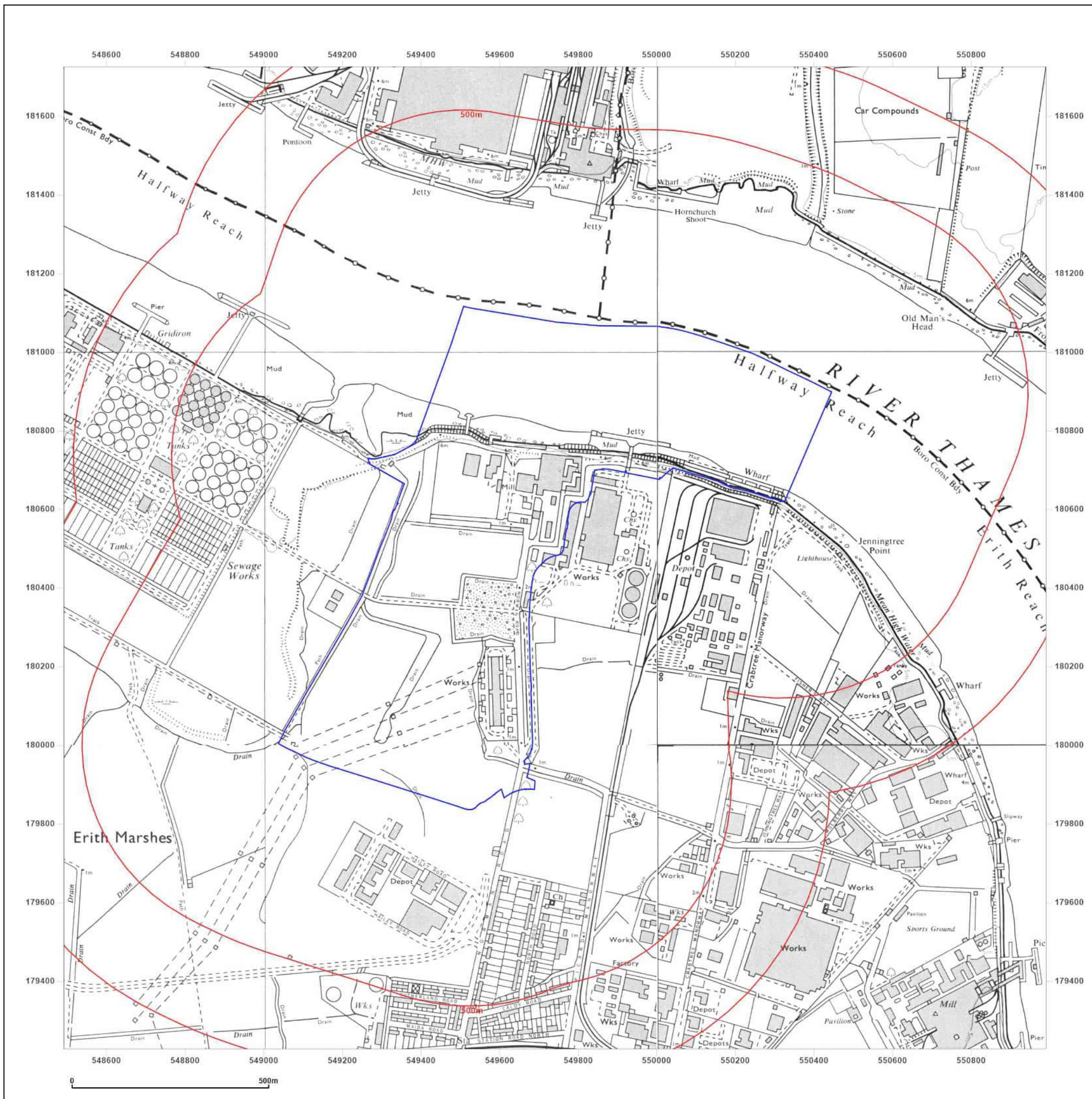


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Map legend available at:
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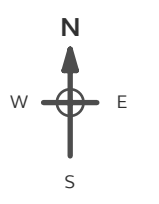


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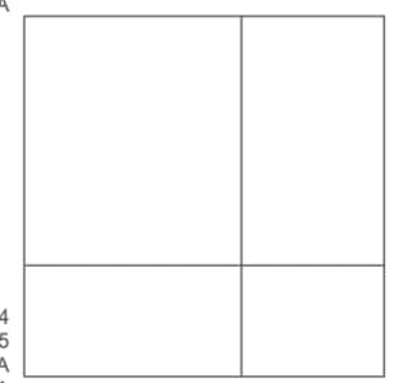
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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT
Grid Ref: 549740, 180476

Map Name: National Grid
Map date: 1983-1985
Scale: 1:10,000
Printed at: 1:10,000



Surveyed 1983
Revised 1983
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1984
Revised 1985
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1984
Revised 1985
Edition N/A
Copyright N/A
Levelled N/A

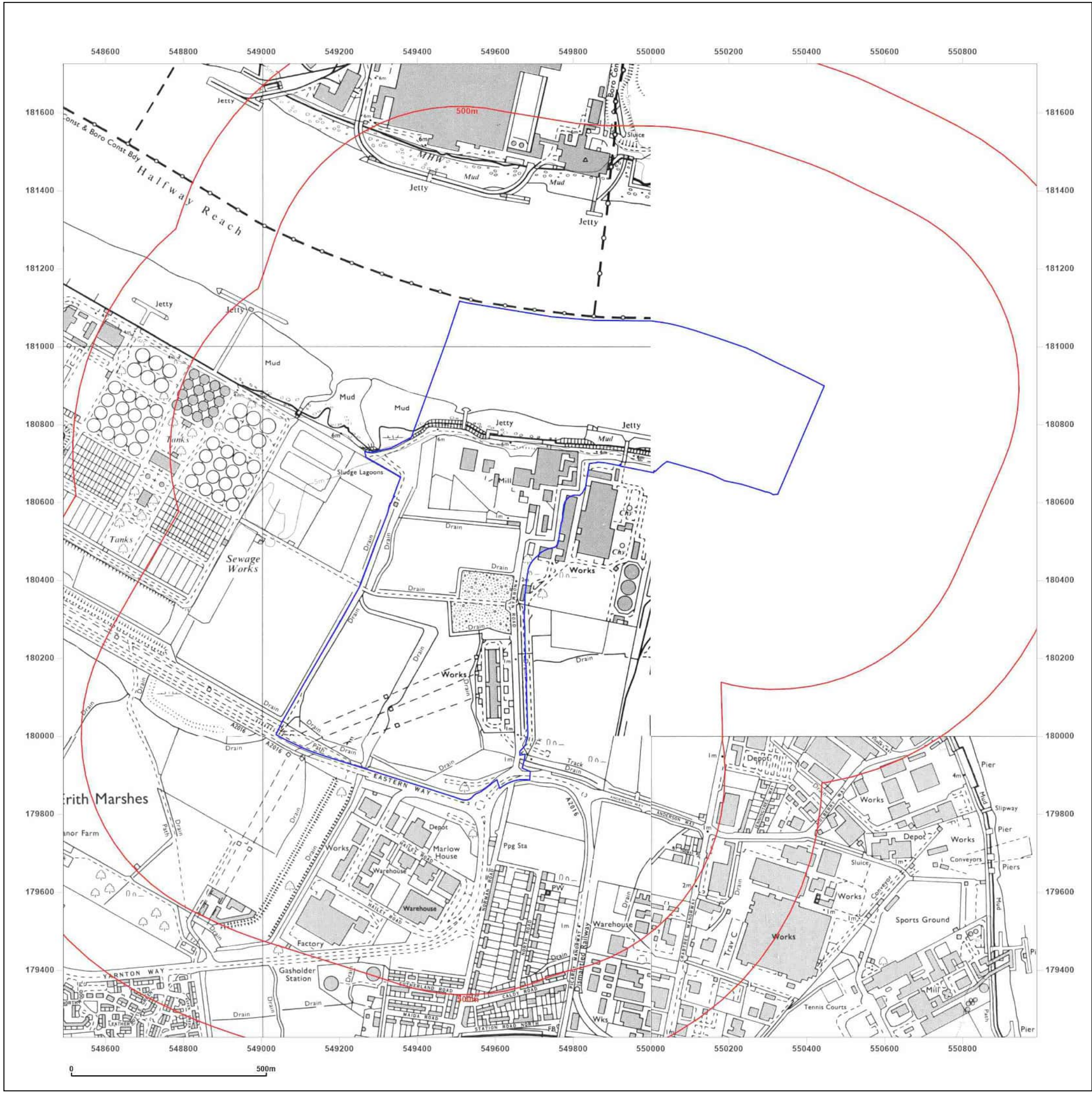


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT
Grid Ref: 549740, 180476

Map Name: National Grid

Map date: 1992-1995

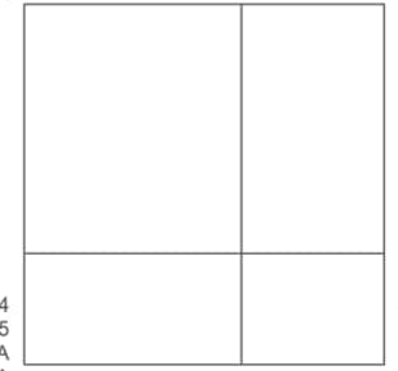
Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1983
Revised 1995
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1973
Revised 1992
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1984
Revised 1995
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1984
Revised 1995
Edition N/A
Copyright N/A
Levelled N/A

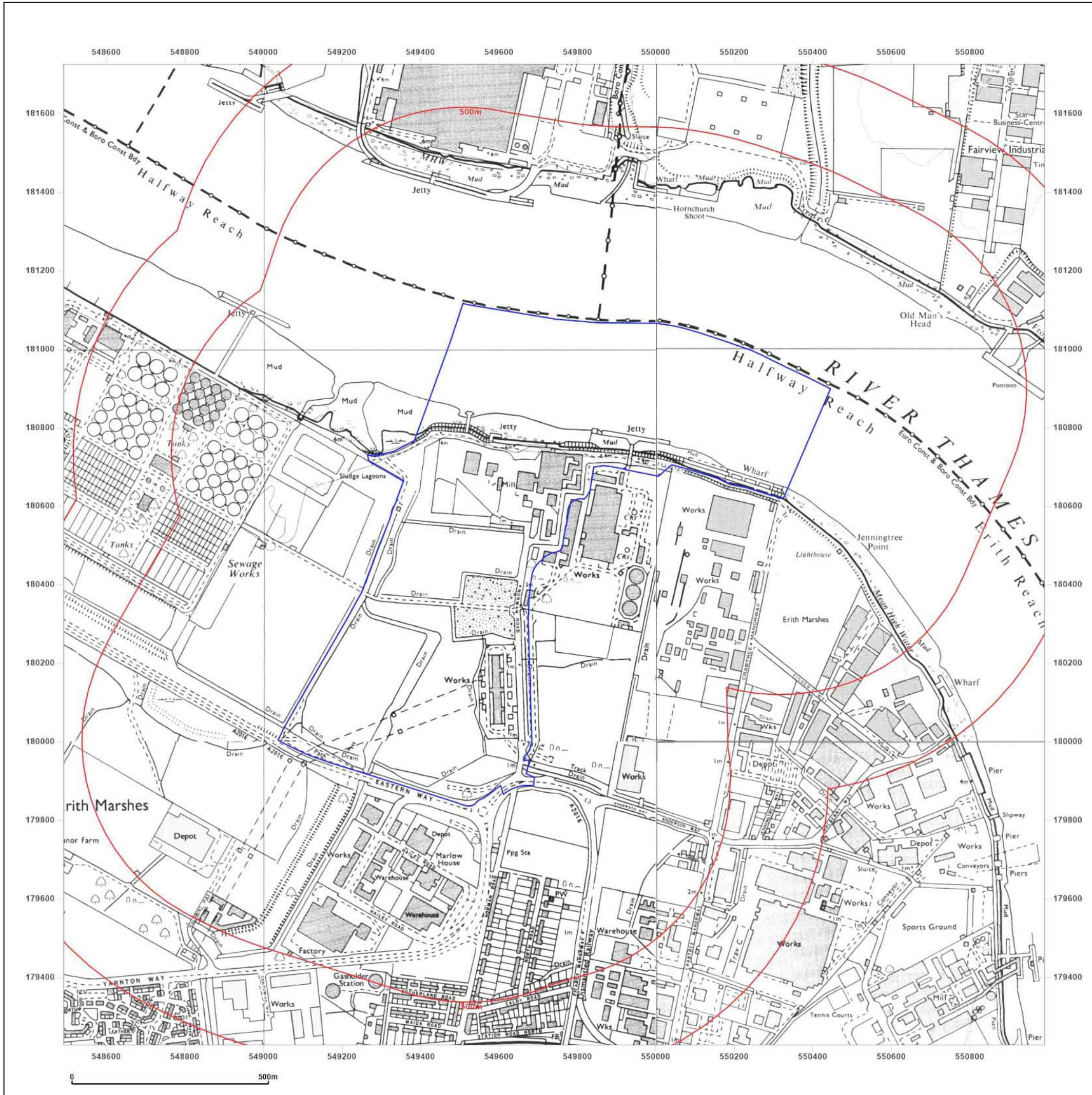


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Map legend available at:
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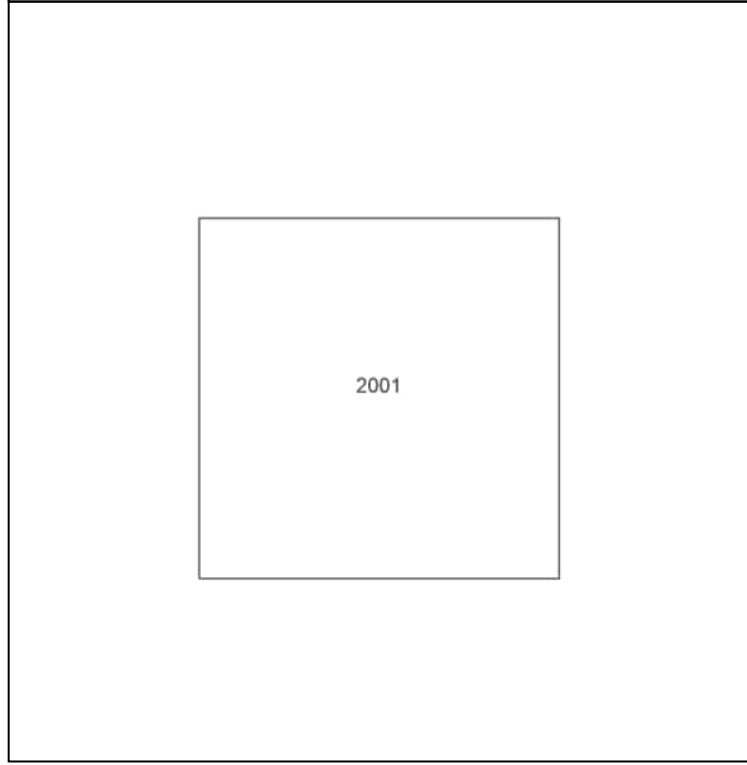
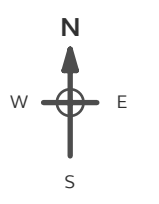



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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT
Grid Ref: 549740, 180476

Map Name: National Grid
Map date: 2001
Scale: 1:10,000
Printed at: 1:10,000

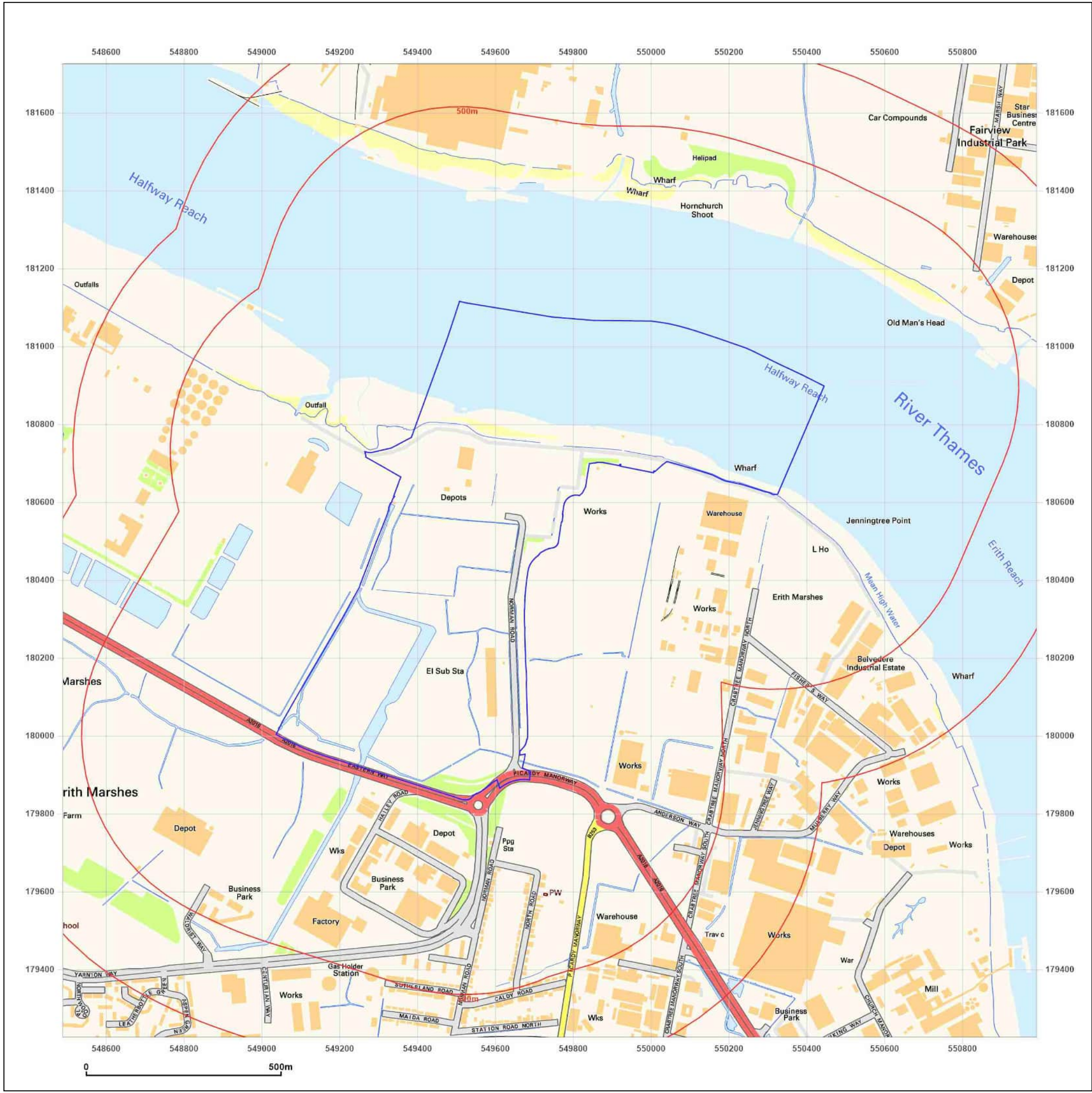



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Production date: 26 October 2023

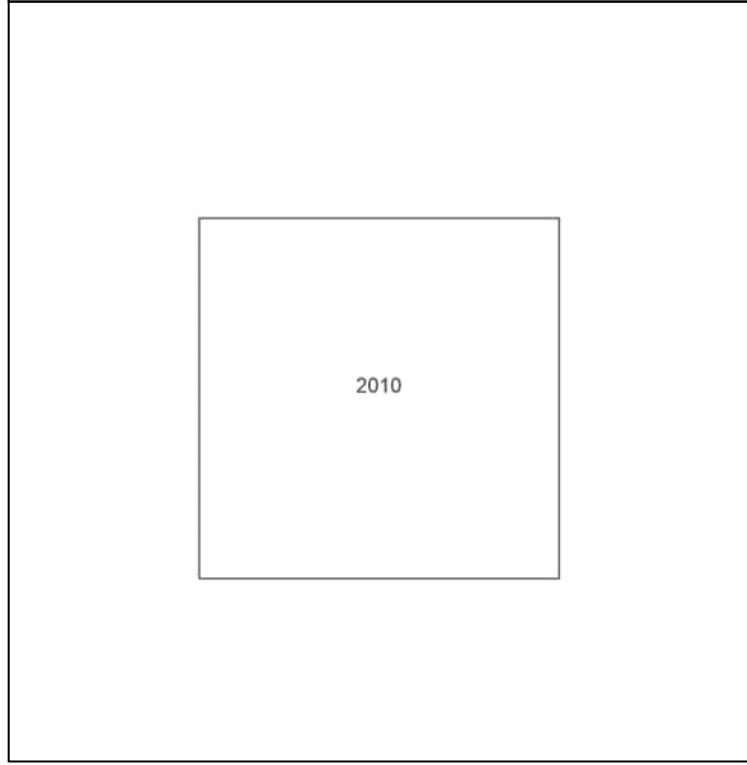
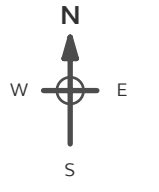
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Site Details:
 549656.6233563919,180548.34
 620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT
Grid Ref: 549740, 180476

Map Name: National Grid
Map date: 2010
Scale: 1:10,000
Printed at: 1:10,000

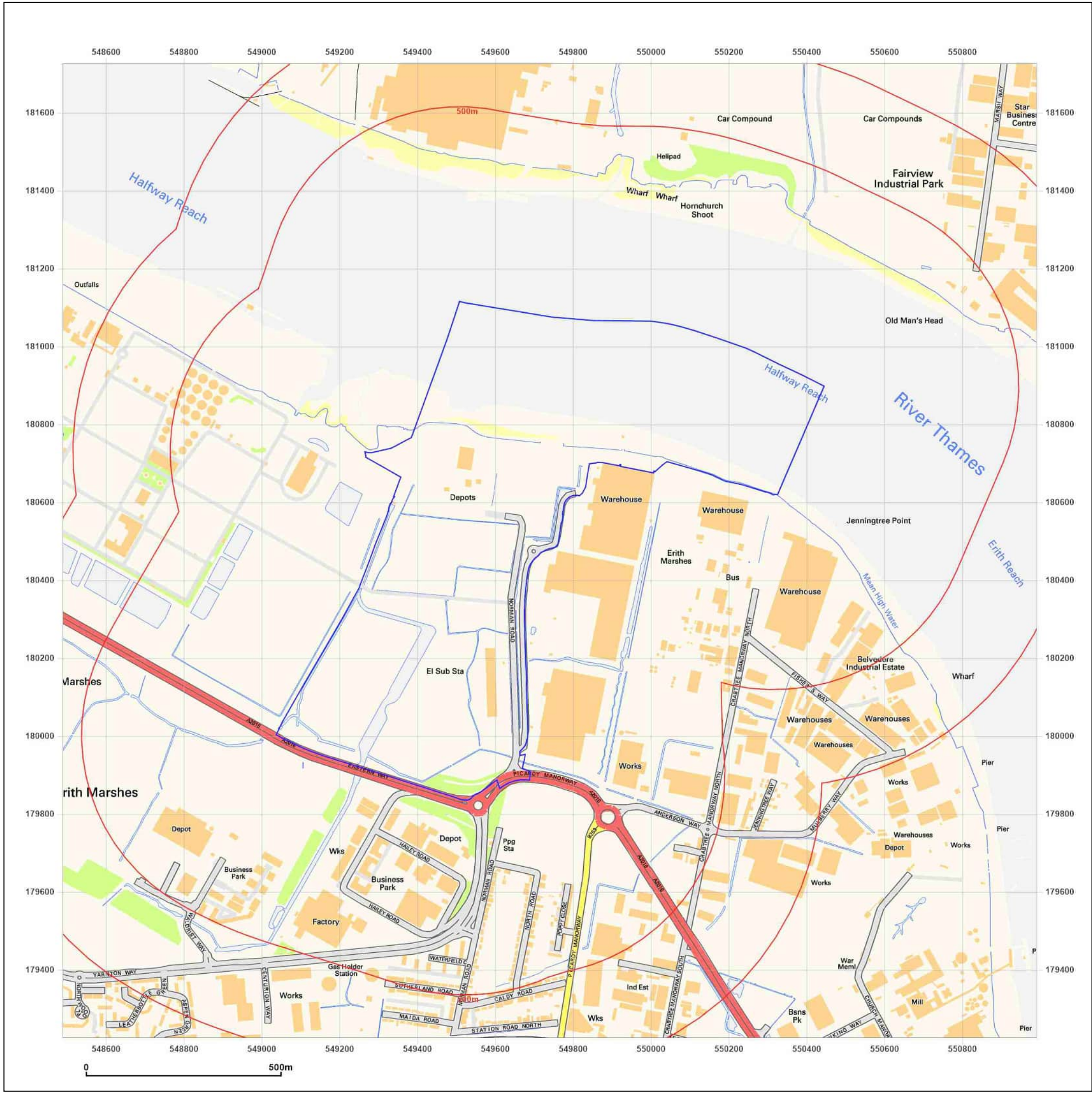


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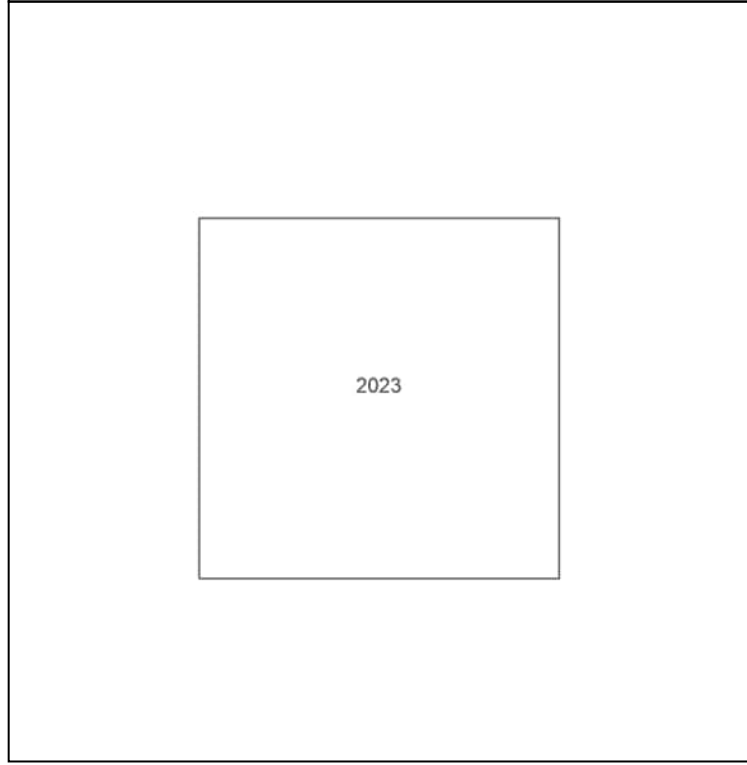
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Grid Ref: 549740, 180476

Map Name: National Grid

Map date: 2023

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Printed at: 1:10,000

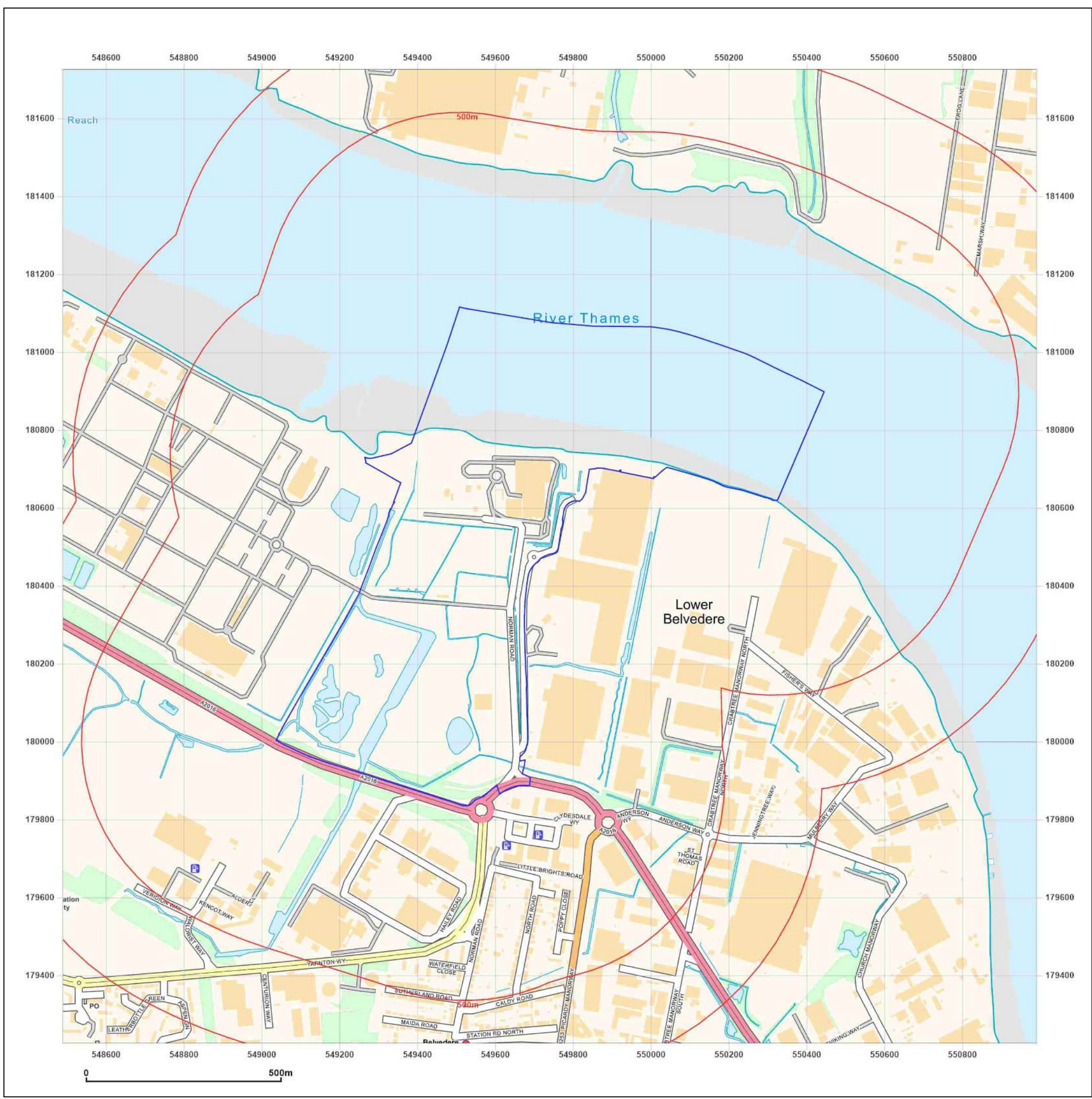


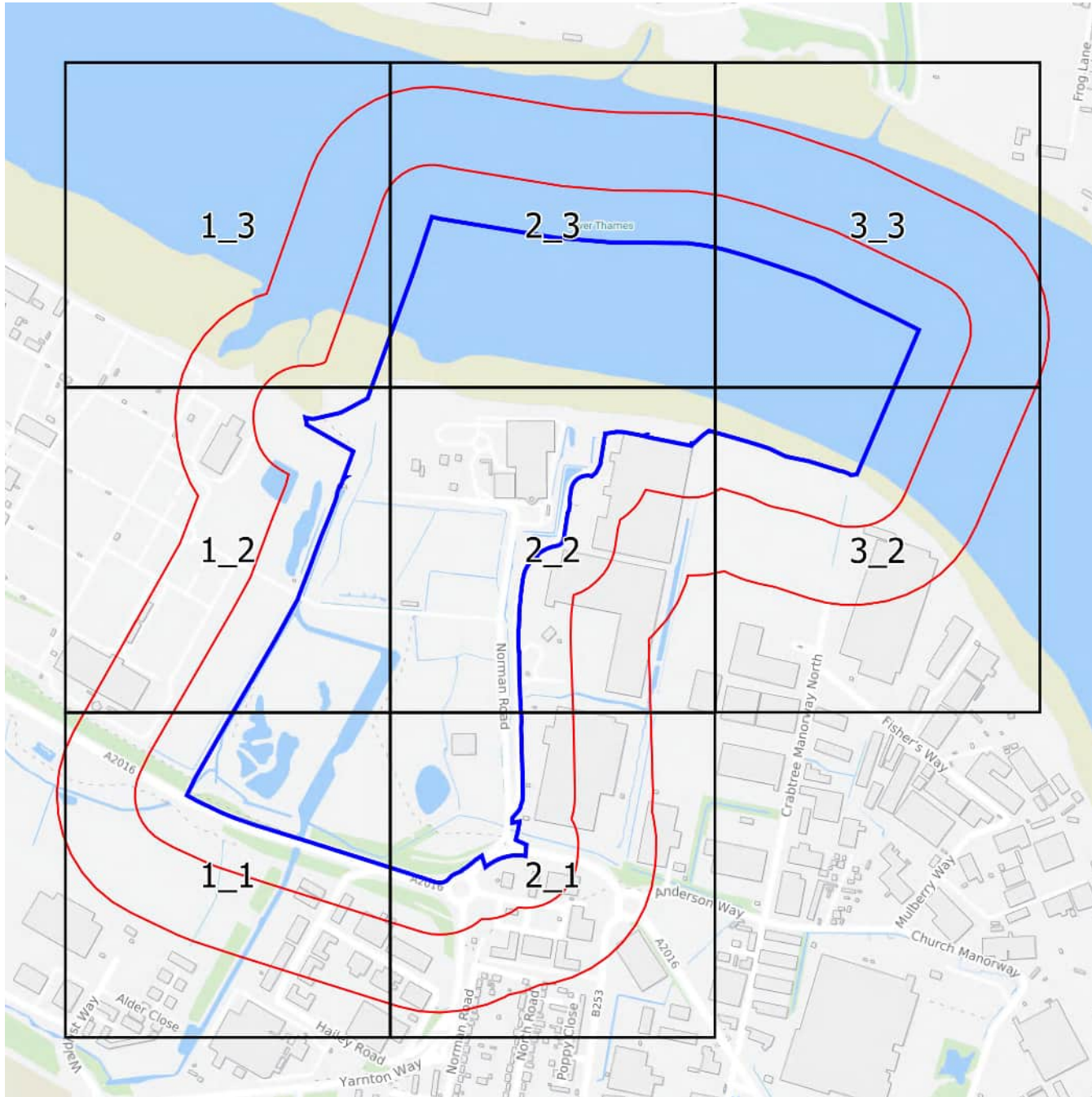
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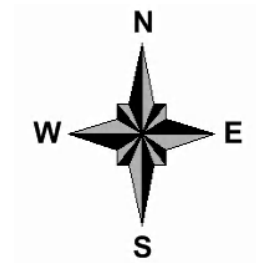
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1:2,500 Scale Grid Index



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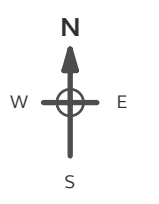
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Report Ref: GS-QCE-212-D95-XTT_LS_1_1
Grid Ref: 549114, 179851

Map Name: County Series

Map date: 1865

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1865
Revised 1865
Edition N/A
Copyright N/A
Levelled N/A

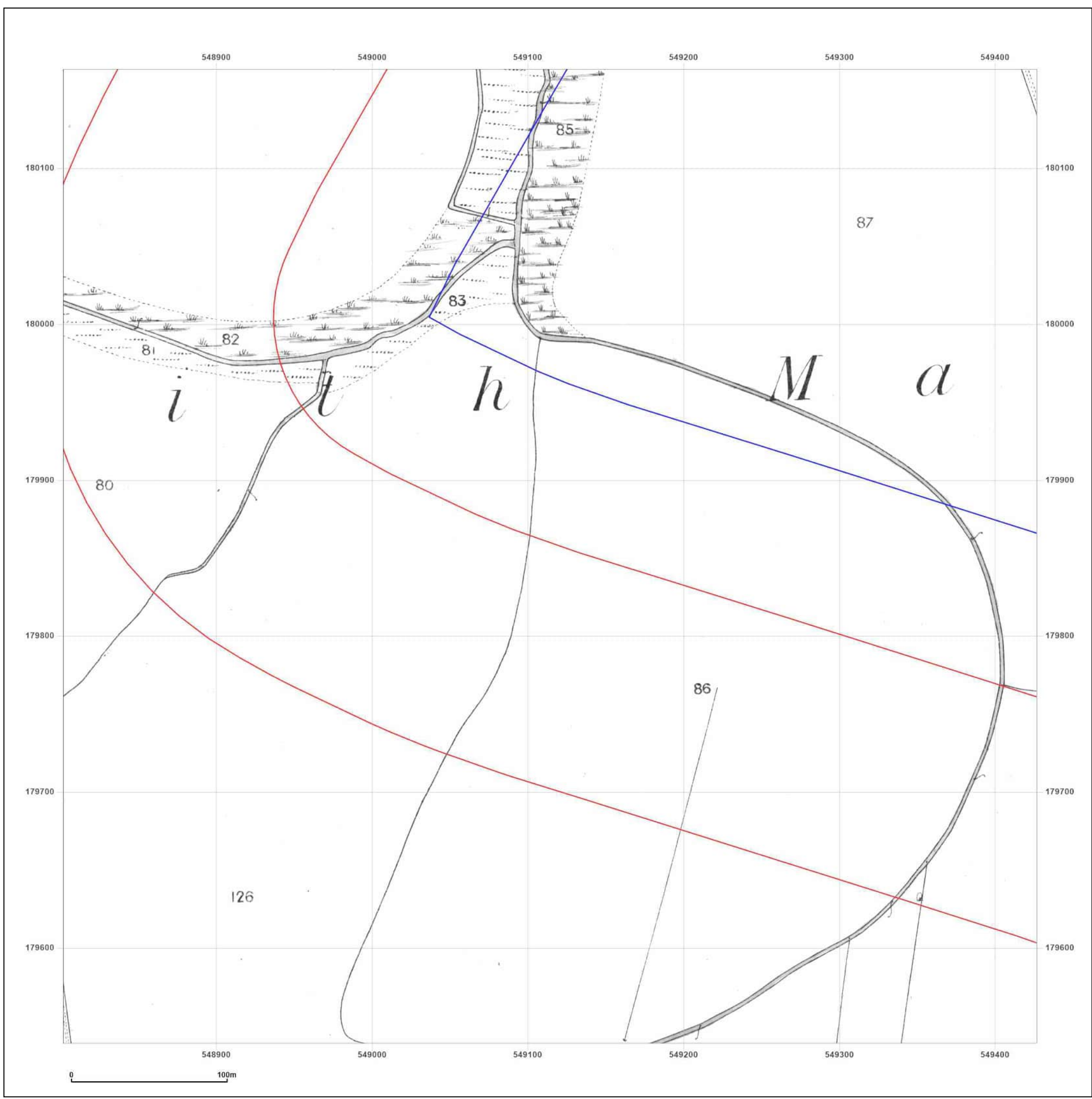


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_1
Grid Ref: 549114, 179851

Map Name: County Series

Map date: 1897

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

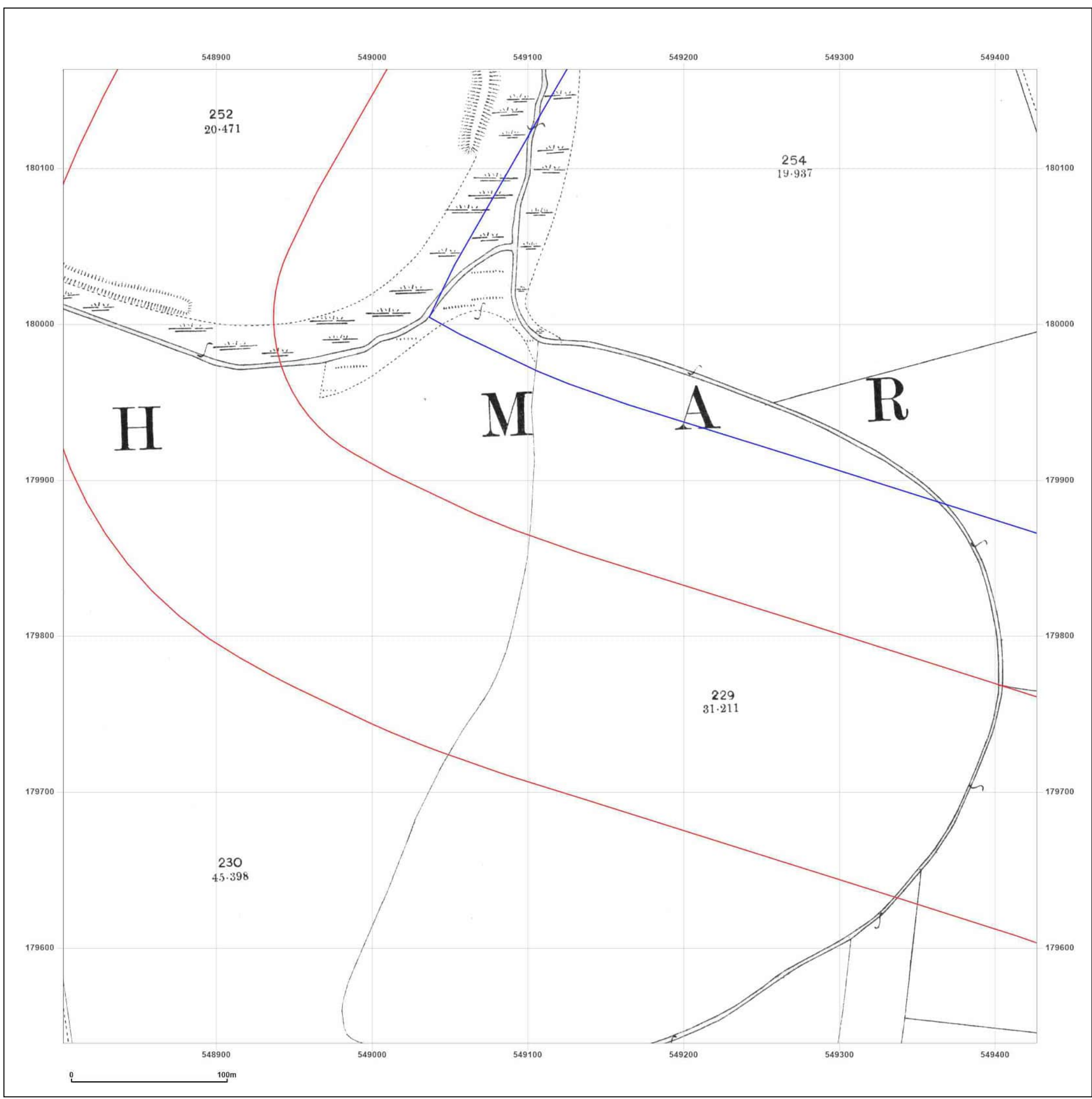


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Production date: 26 October 2023

Map legend available at: [REDACTED]



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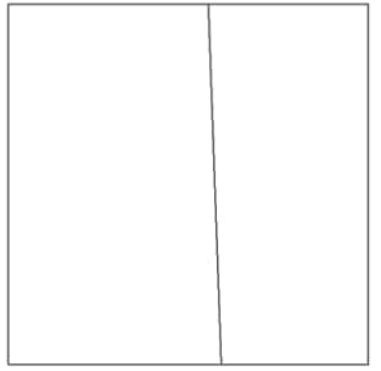
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Map Name: County Series

Map date: 1897

Scale: 1:2,500

Printed at: 1:2,500

Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

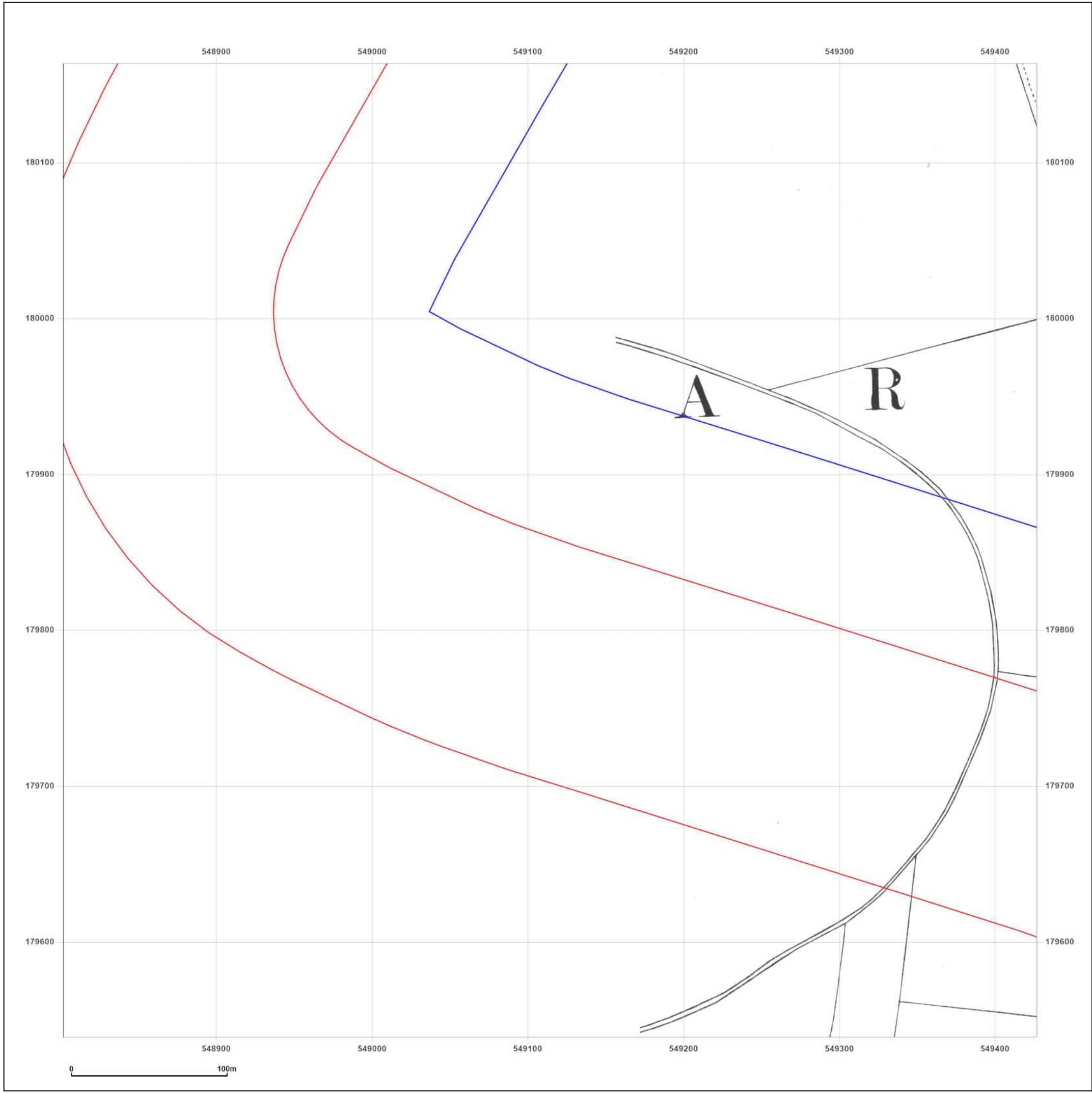


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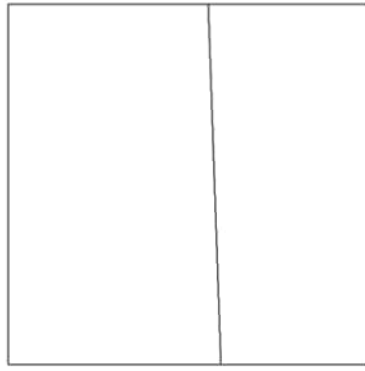
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Grid Ref: 549114, 179851

Map Name: County Series

Map date: 1897

Scale: 1:2,500

Printed at: 1:2,500

Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

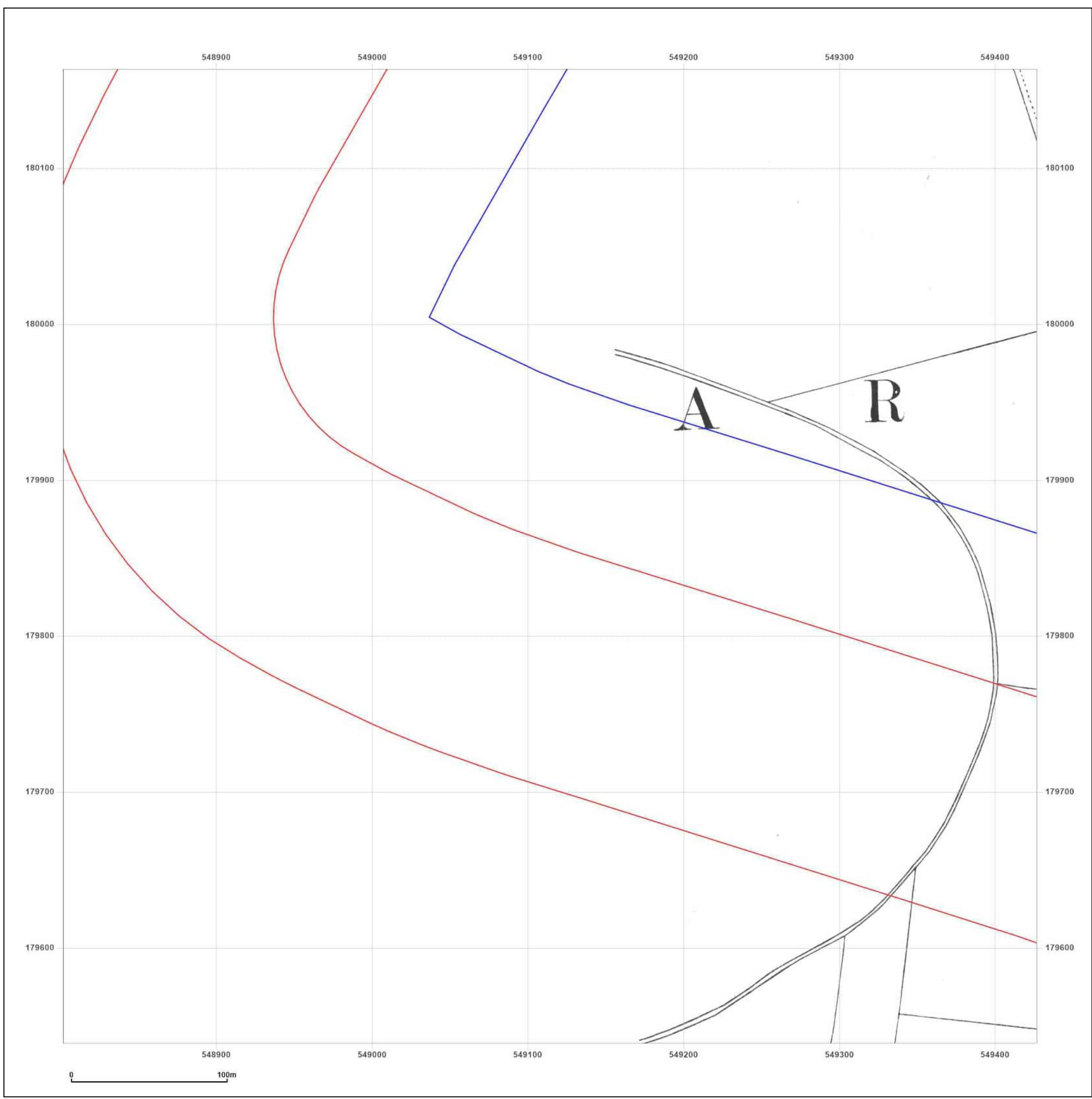


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_1
Grid Ref: 549114, 179851

Map Name: County Series

Map date: 1909

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

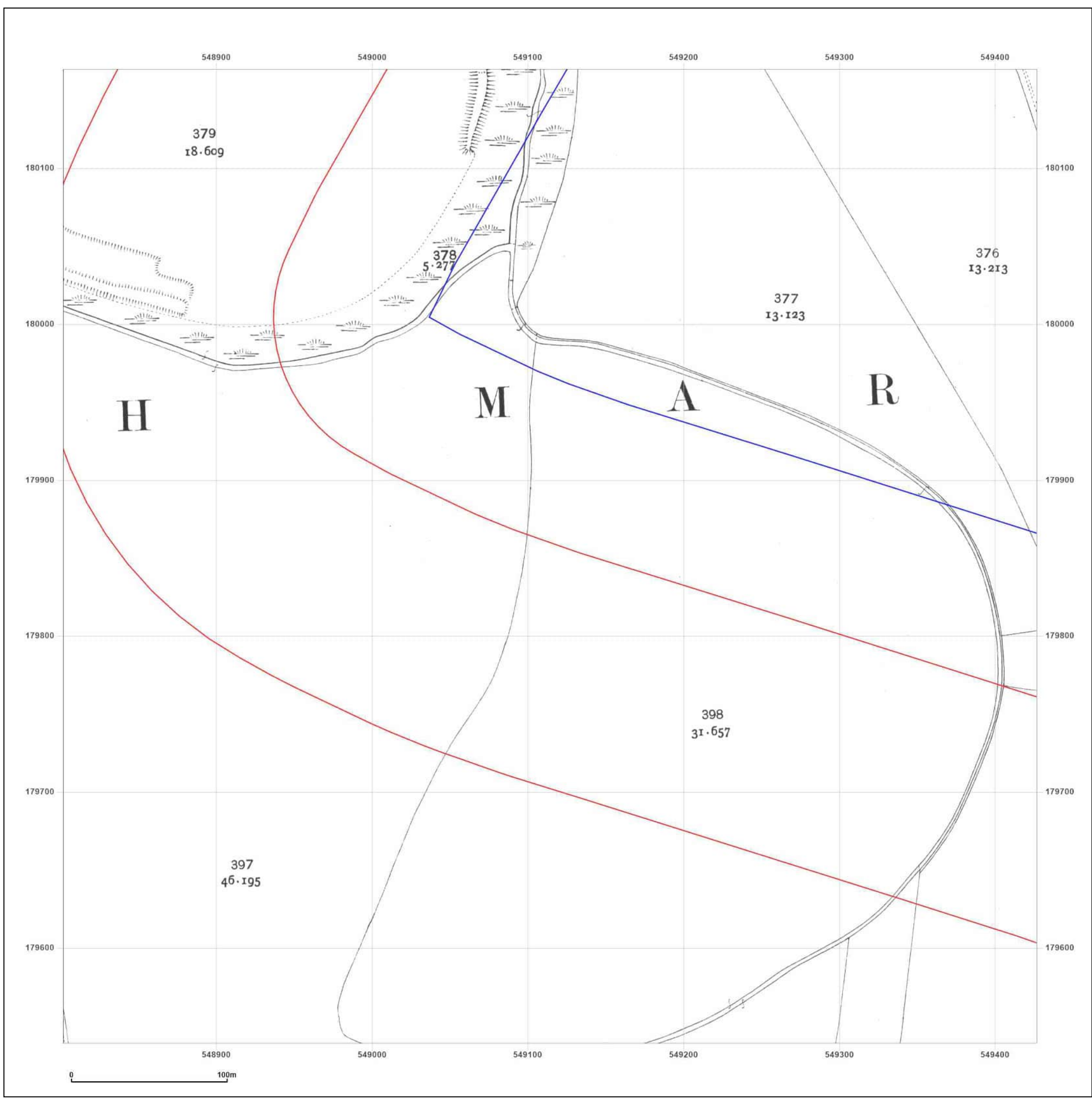


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Site Details:

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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_1
Grid Ref: 549114, 179851

Map Name: County Series

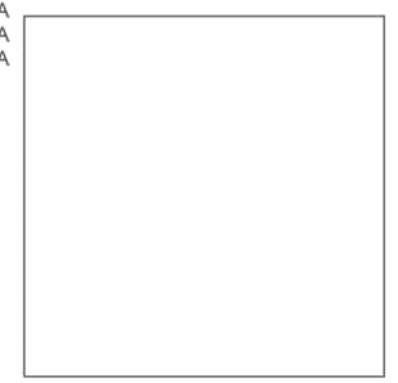
Map date: 1916

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1916
Revised 1916
Edition N/A
Copyright N/A
Levelled N/A

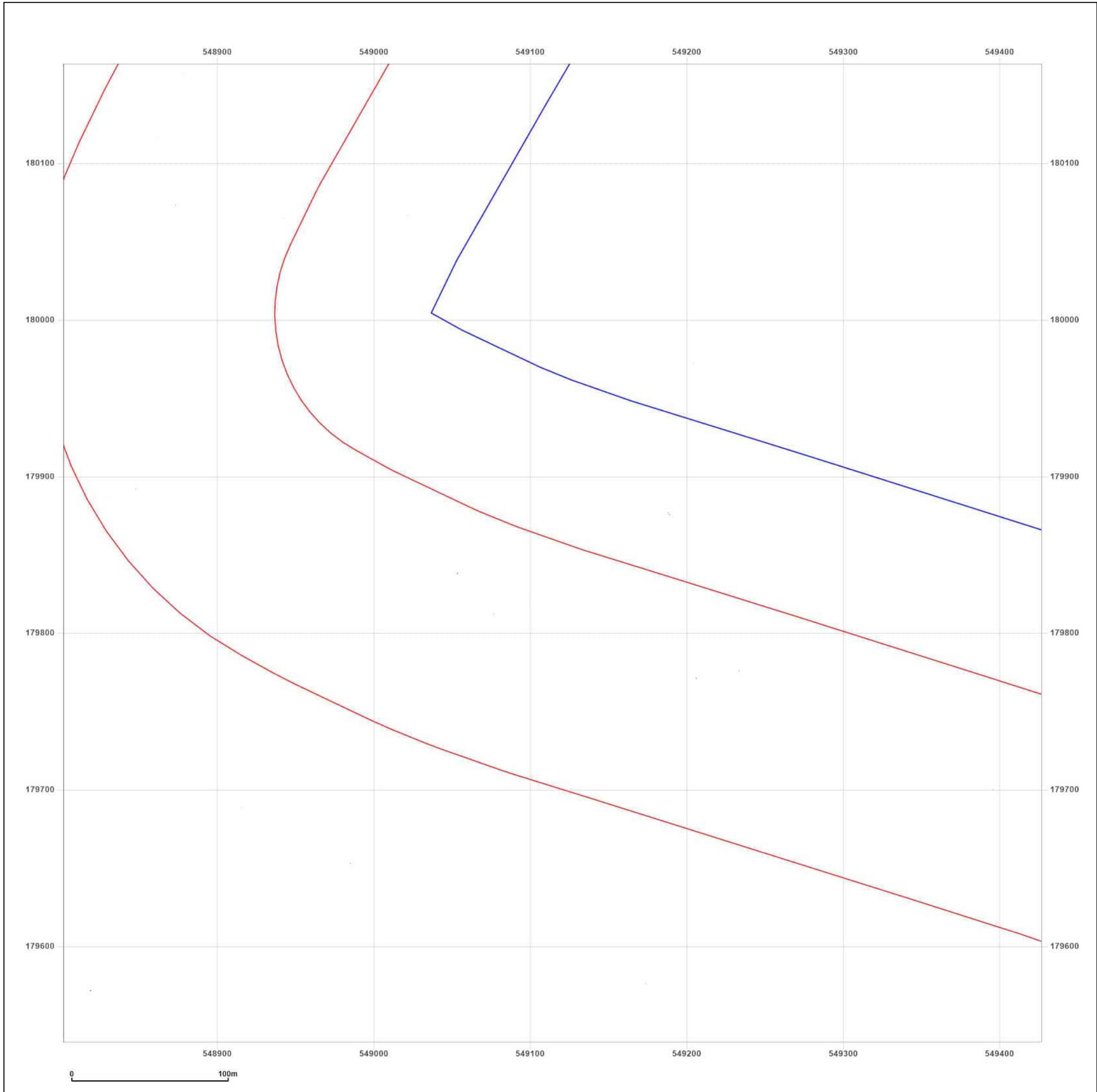


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Production date: 26 October 2023

Map legend available at:
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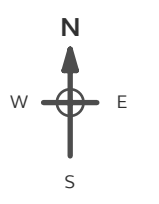


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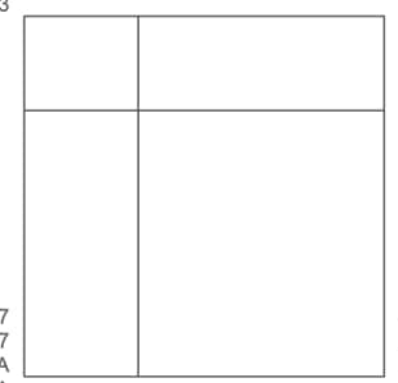
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620791927

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Report Ref: GS-QCE-212-D95-XTT_LS_1_1
Grid Ref: 549114, 179851

Map Name: National Grid
Map date: 1957
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953



Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1957
Revised 1957
Edition 1958
Copyright N/A
Levelled 1953

Surveyed 1957
Revised 1957
Edition 1959
Copyright 1959
Levelled 1953

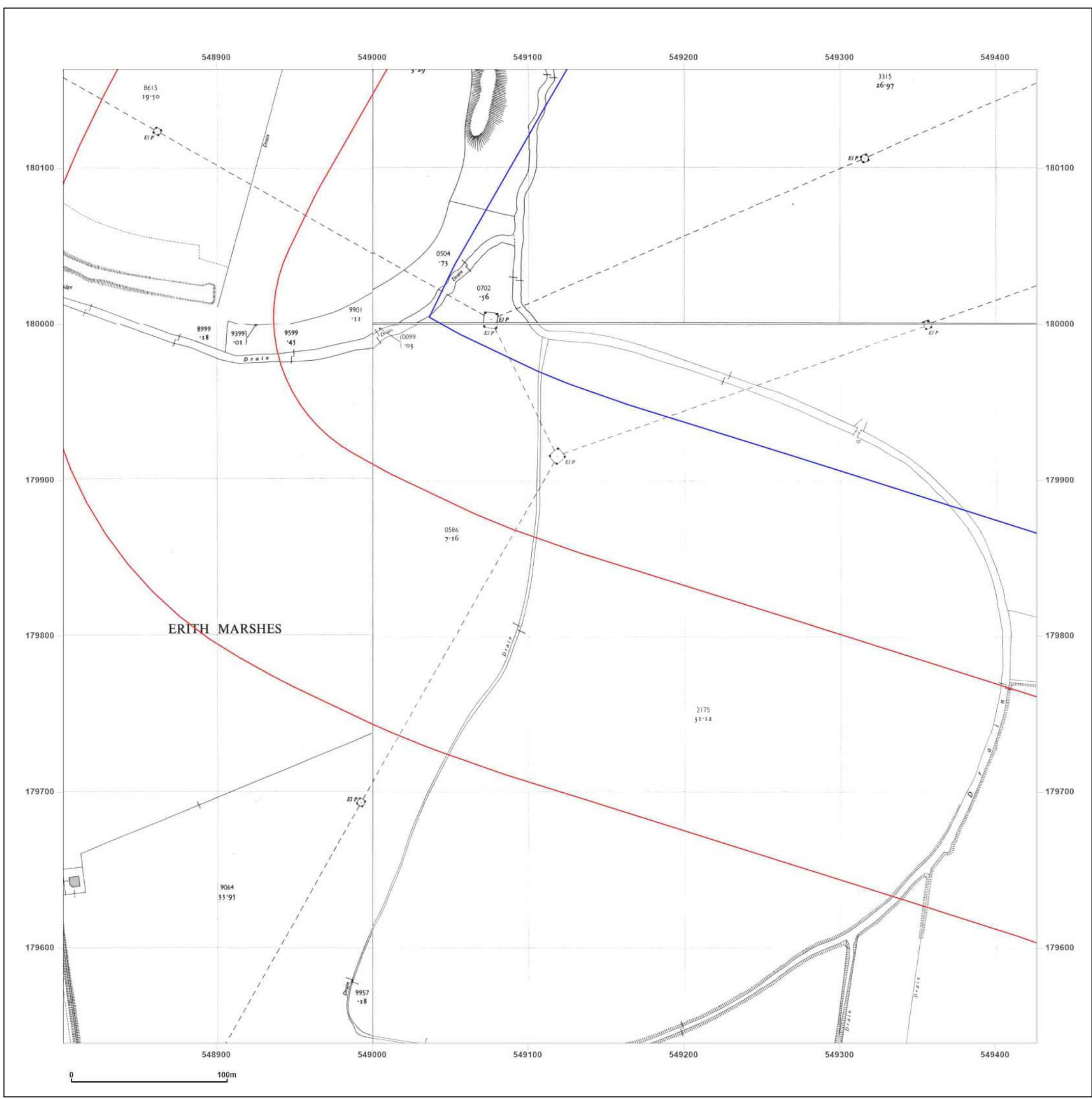


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Production date: 26 October 2023

Map legend available at: [REDACTED]

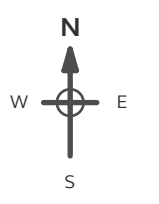


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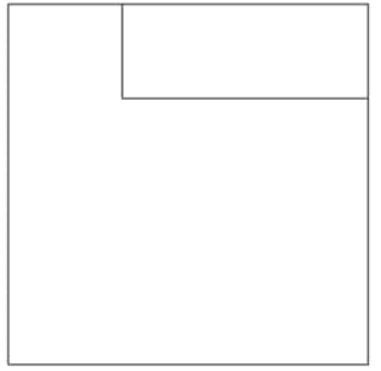
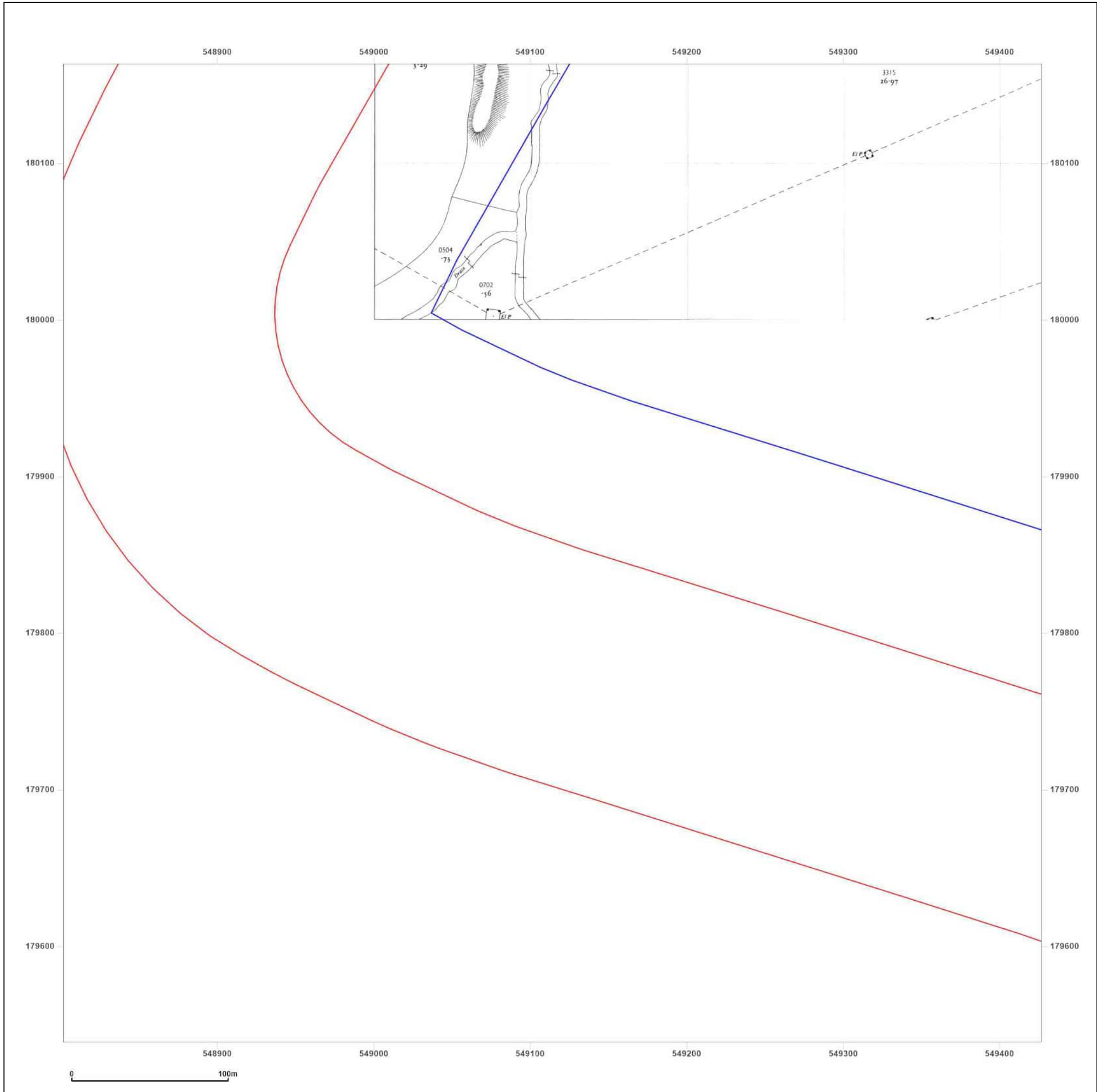
549656.6233563919,180548.34
620791927



Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_1
Grid Ref: 549114, 179851

Map Name: National Grid
Map date: 1957
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1957
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Edition 1958
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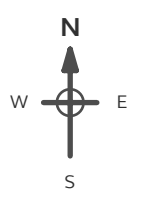
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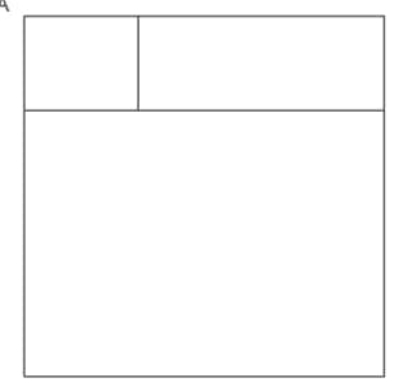
549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_1
Grid Ref: 549114, 179851

Map Name: National Grid
Map date: 1970
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1957 Revised 1969 Edition 1970 Copyright N/A Levelled N/A	Surveyed N/A Revised 1968 Edition N/A Copyright 1970 Levelled 1953
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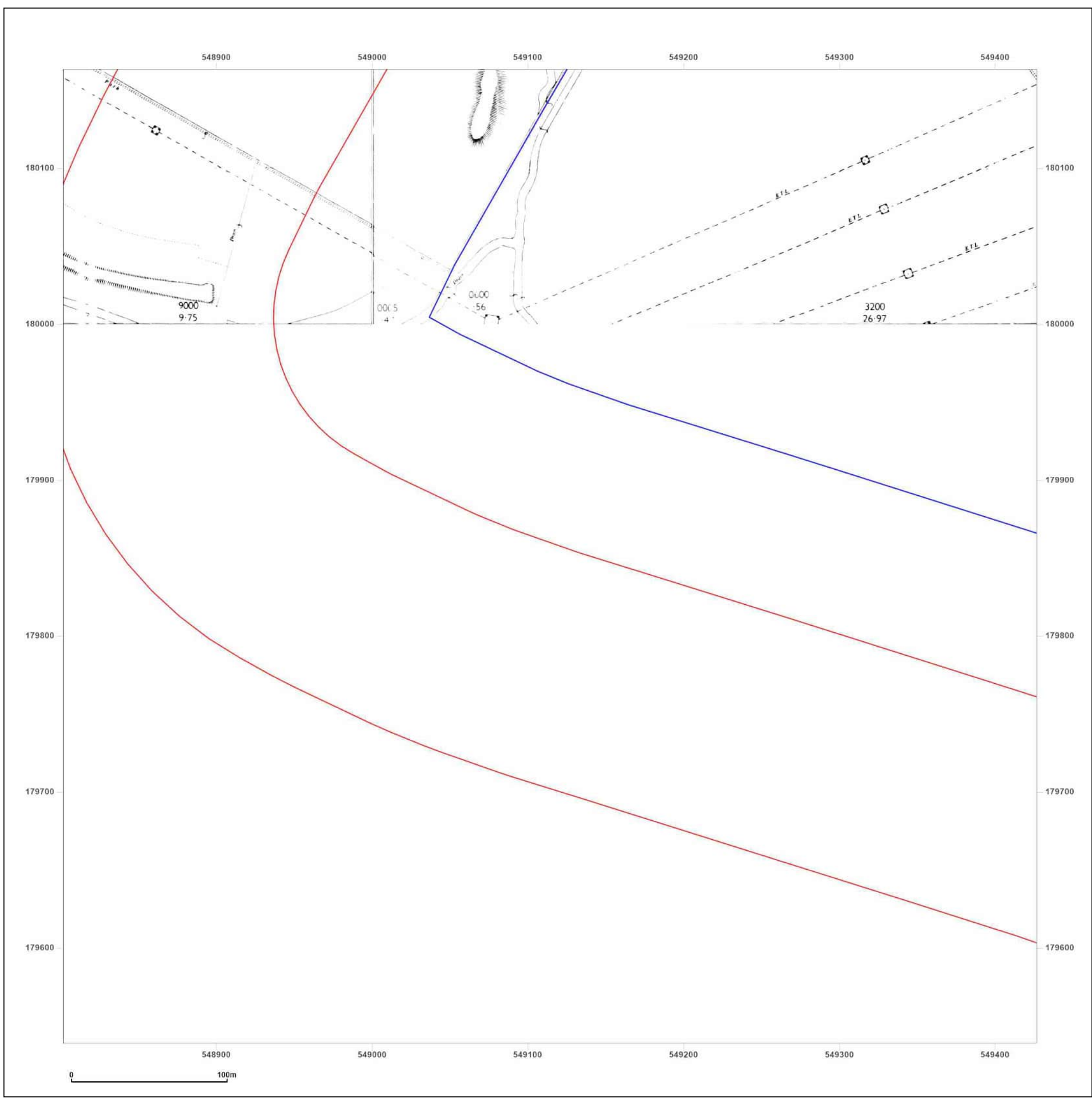


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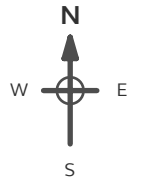
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Report Ref: GS-QCE-212-D95-XTT_LS_1_2
Grid Ref: 549114, 180476

Map Name: County Series

Map date: 1864

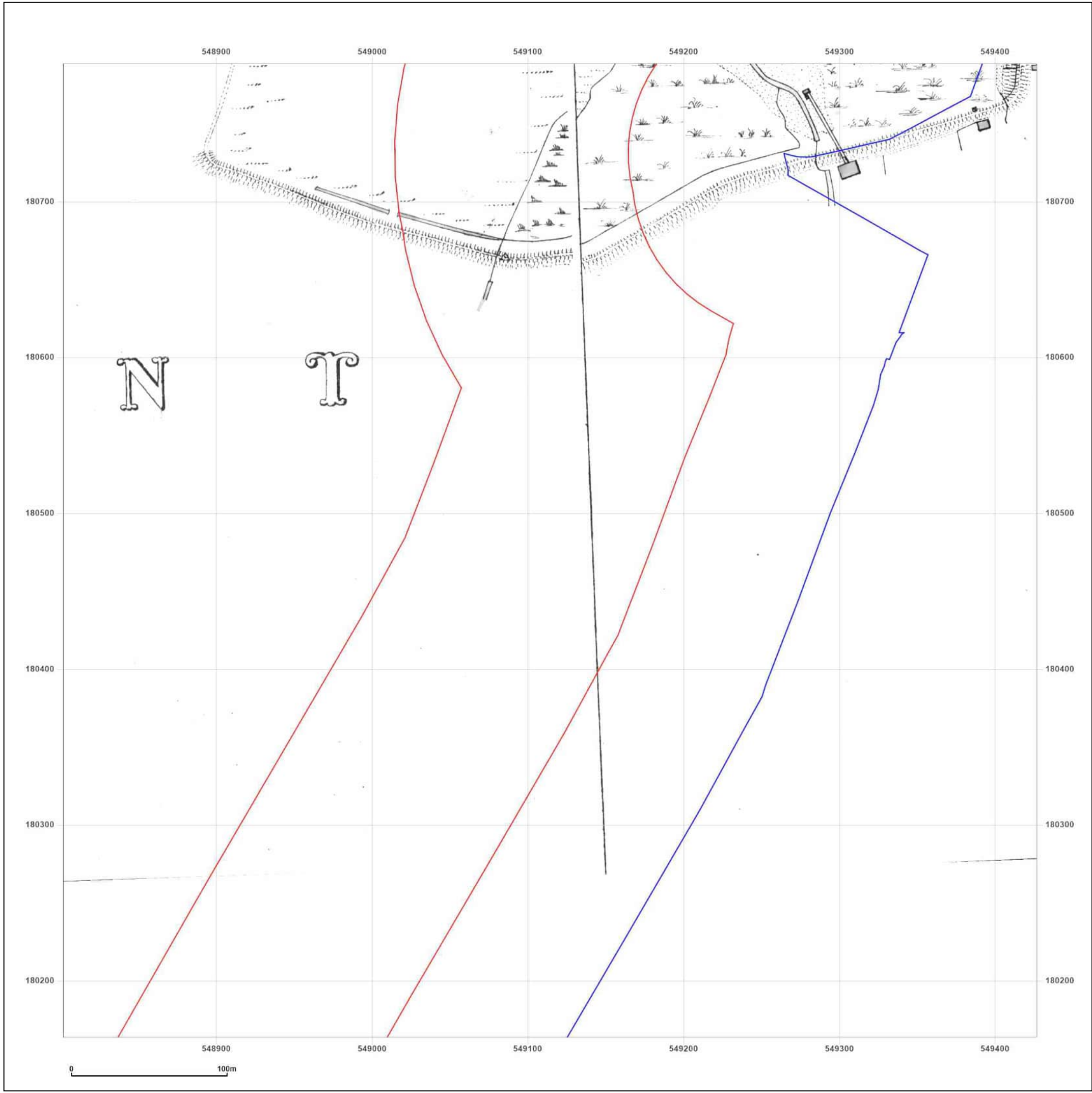
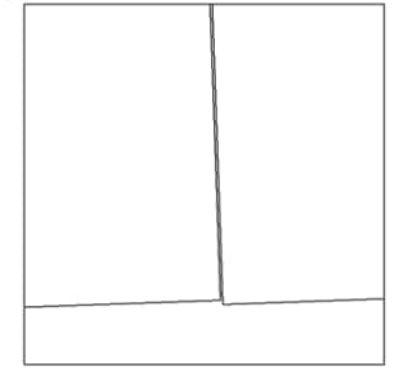
Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1864
Revised 1864
Edition N/A
Copyright N/A
Levelled N/A

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_2
Grid Ref: 549114, 180476

Map Name: County Series

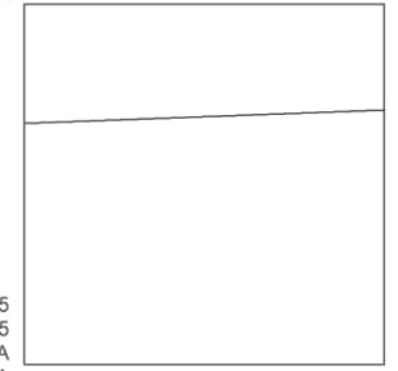
Map date: 1865

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1865
Revised 1865
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1865
Revised 1865
Edition N/A
Copyright N/A
Levelled N/A

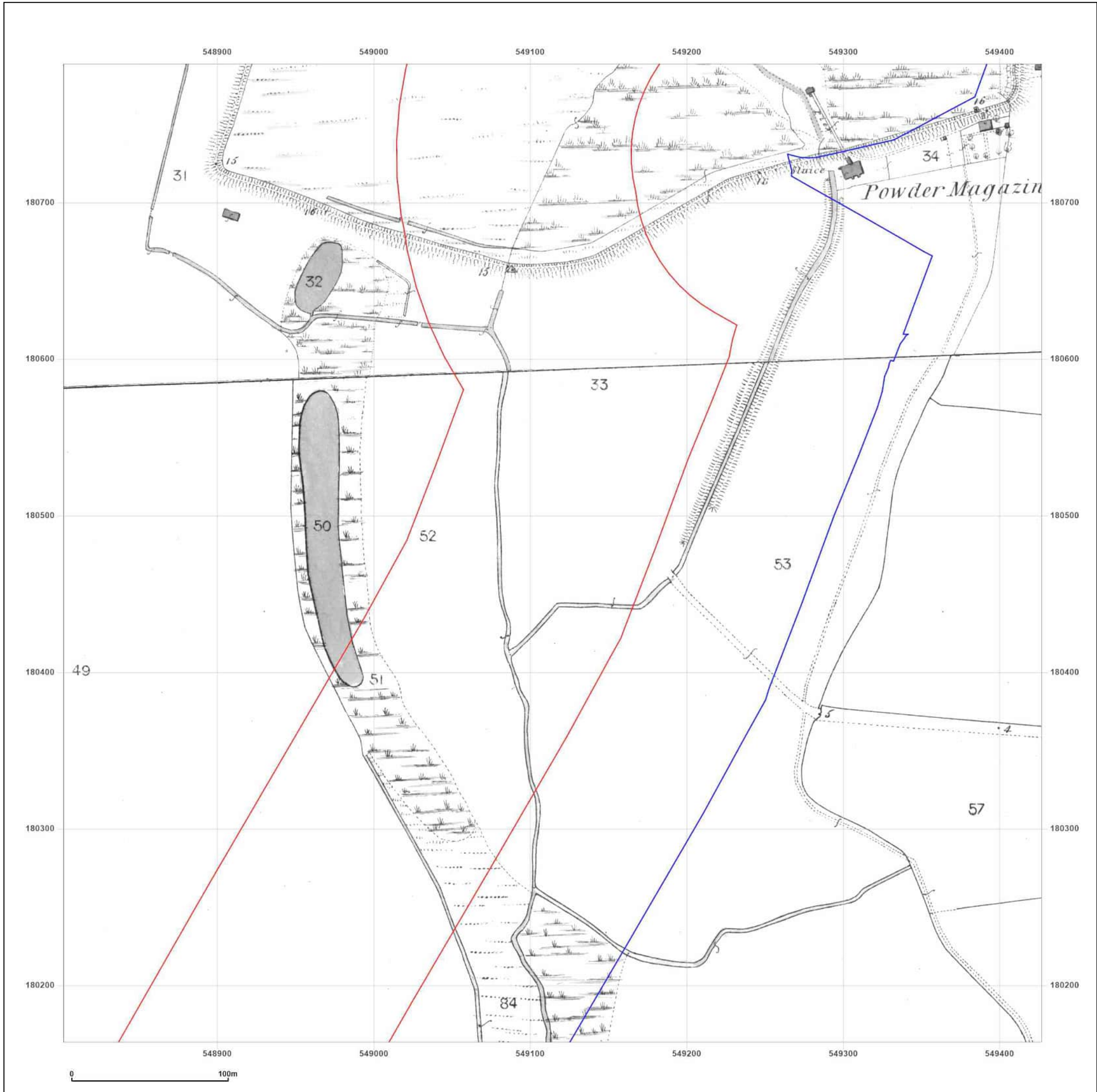


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Map legend available at: [REDACTED]

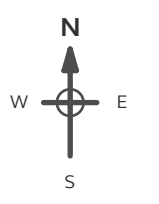


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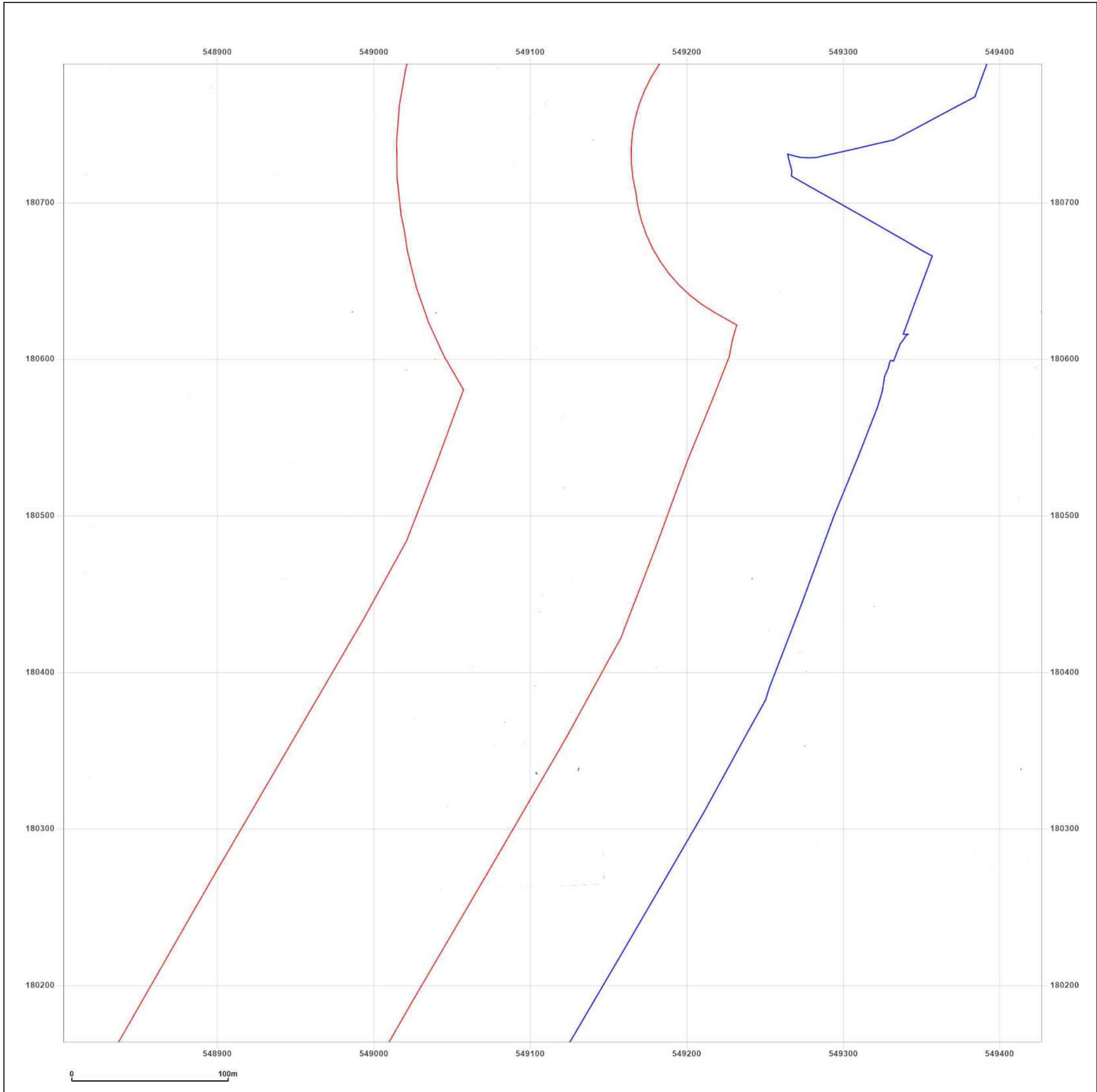
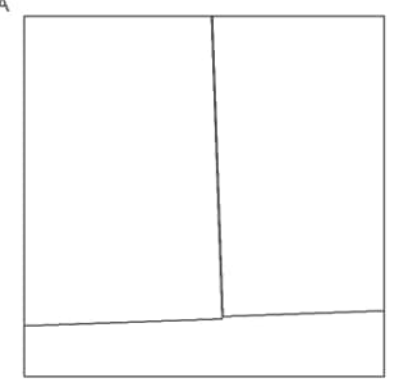
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Report Ref: GS-QCE-212-D95-XTT_LS_1_2
Grid Ref: 549114, 180476

Map Name: County Series
Map date: 1864-1867
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1864
Revised 1864
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A



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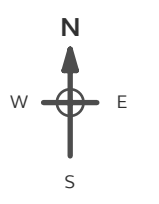
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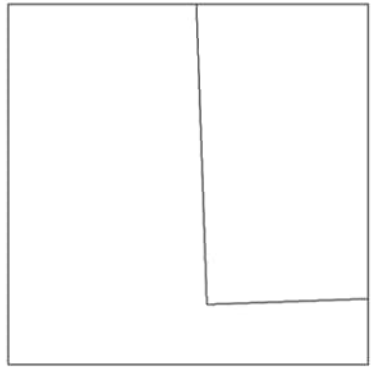
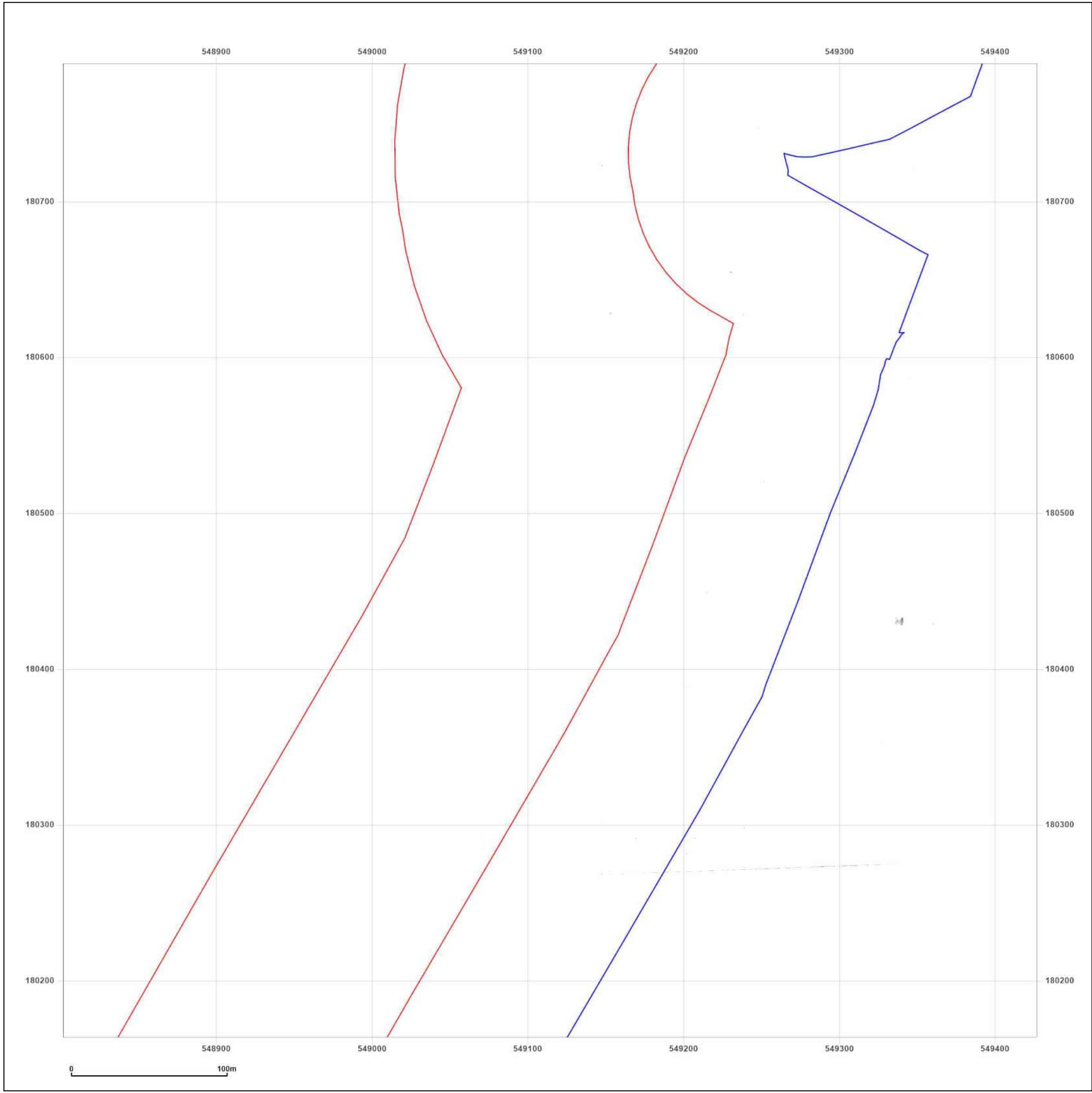
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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_2
Grid Ref: 549114, 180476

Map Name: County Series
Map date: 1867
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1867
Revised 1867
Edition N/A
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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_2
Grid Ref: 549114, 180476

Map Name: County Series

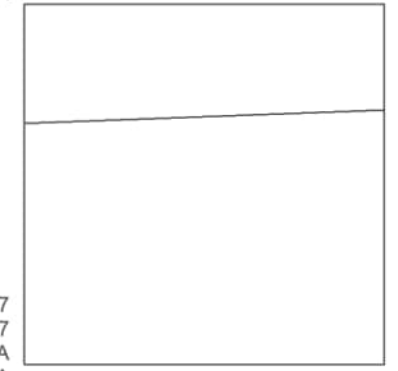
Map date: 1897

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

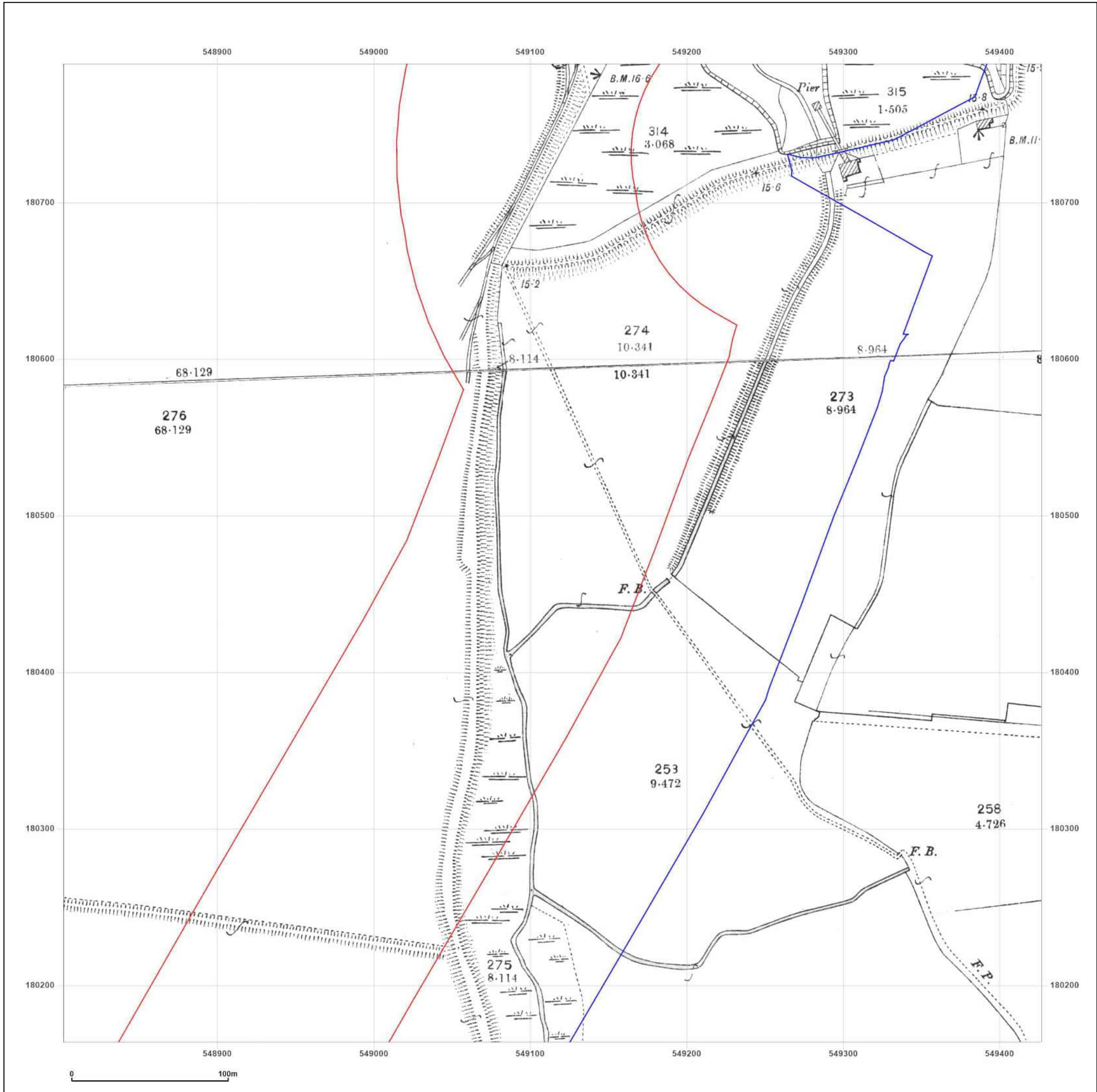


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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_2
Grid Ref: 549114, 180476

Map Name: County Series

Map date: 1897

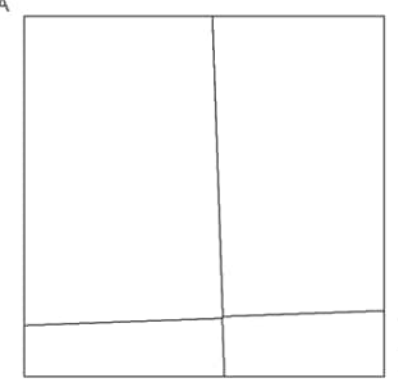
Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

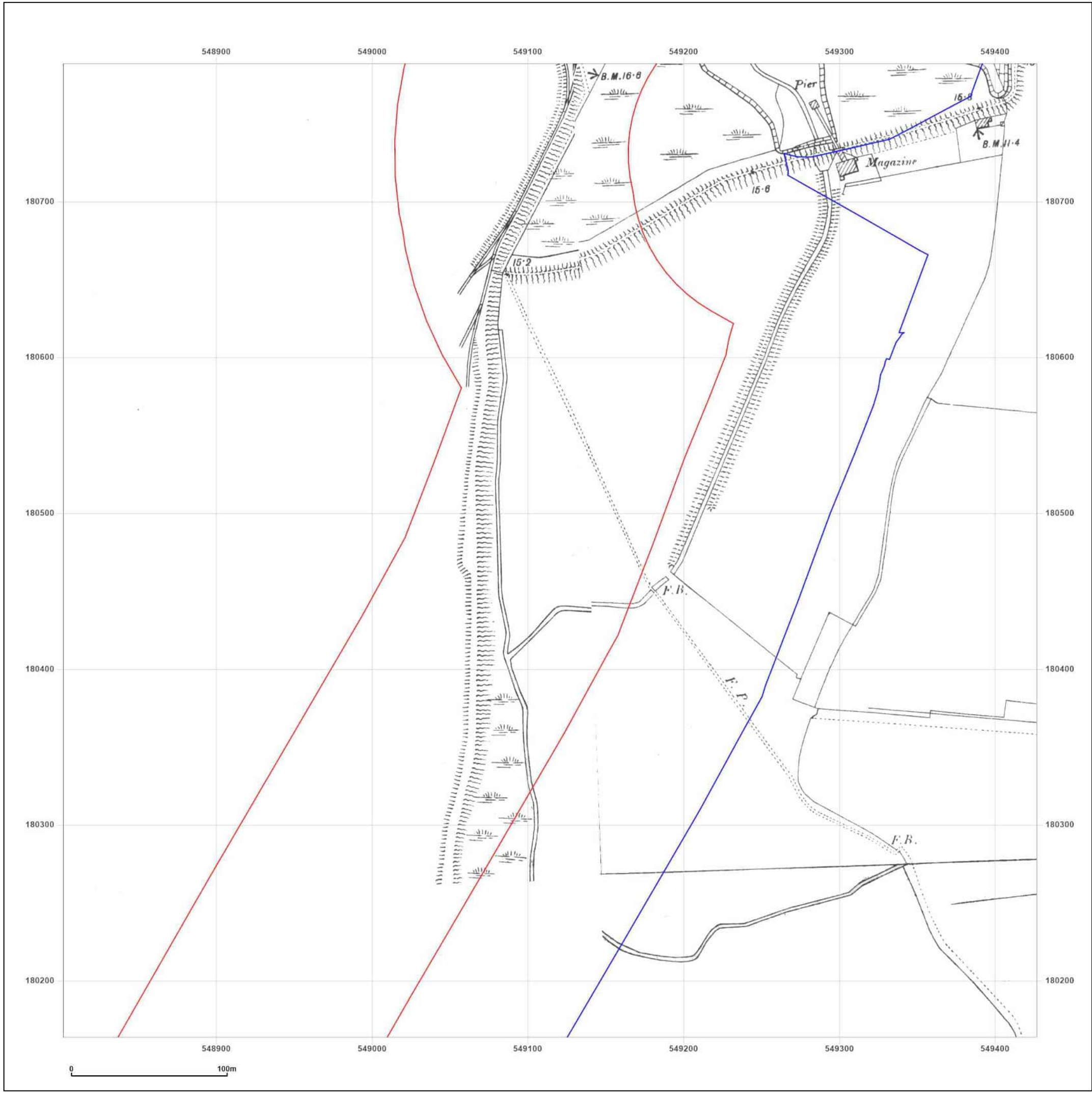


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Report Ref: GS-QCE-212-D95-XTT_LS_1_2
Grid Ref: 549114, 180476

Map Name: County Series

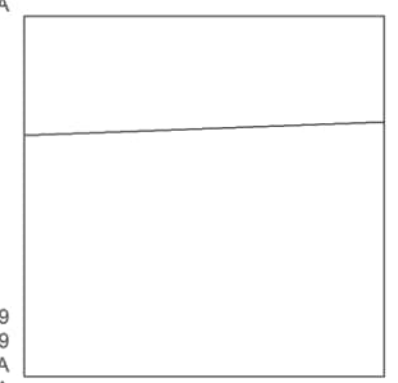
Map date: 1909

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

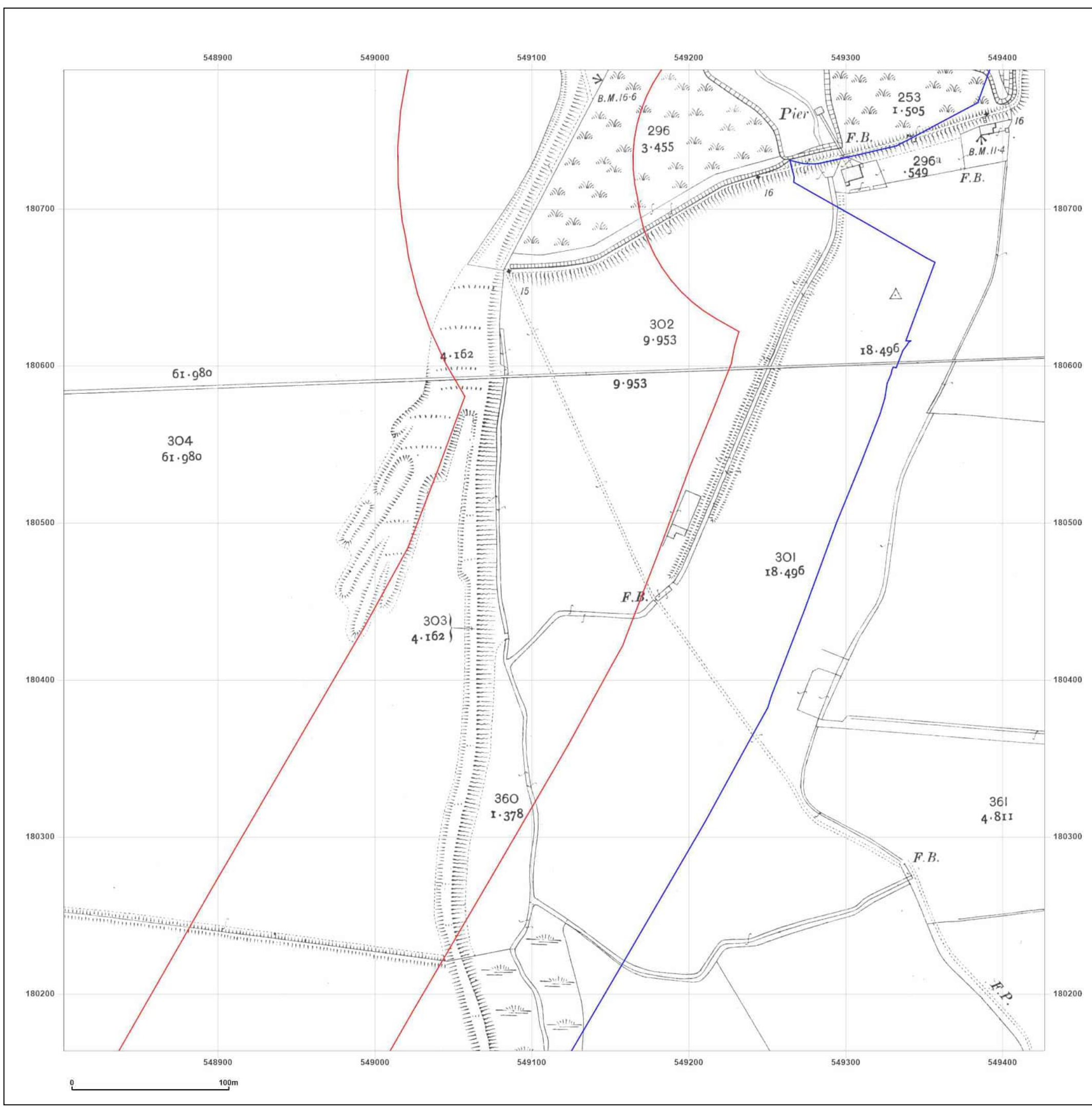


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Production date: 26 October 2023

Map legend available at: [REDACTED]

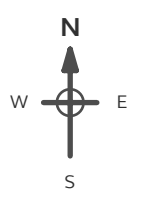


Site Details:

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620791927


Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_2
Grid Ref: 549114, 180476

Map Name: County Series
Map date: 1916
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1916
Revised 1916
Edition N/A
Copyright N/A
Levelled N/A

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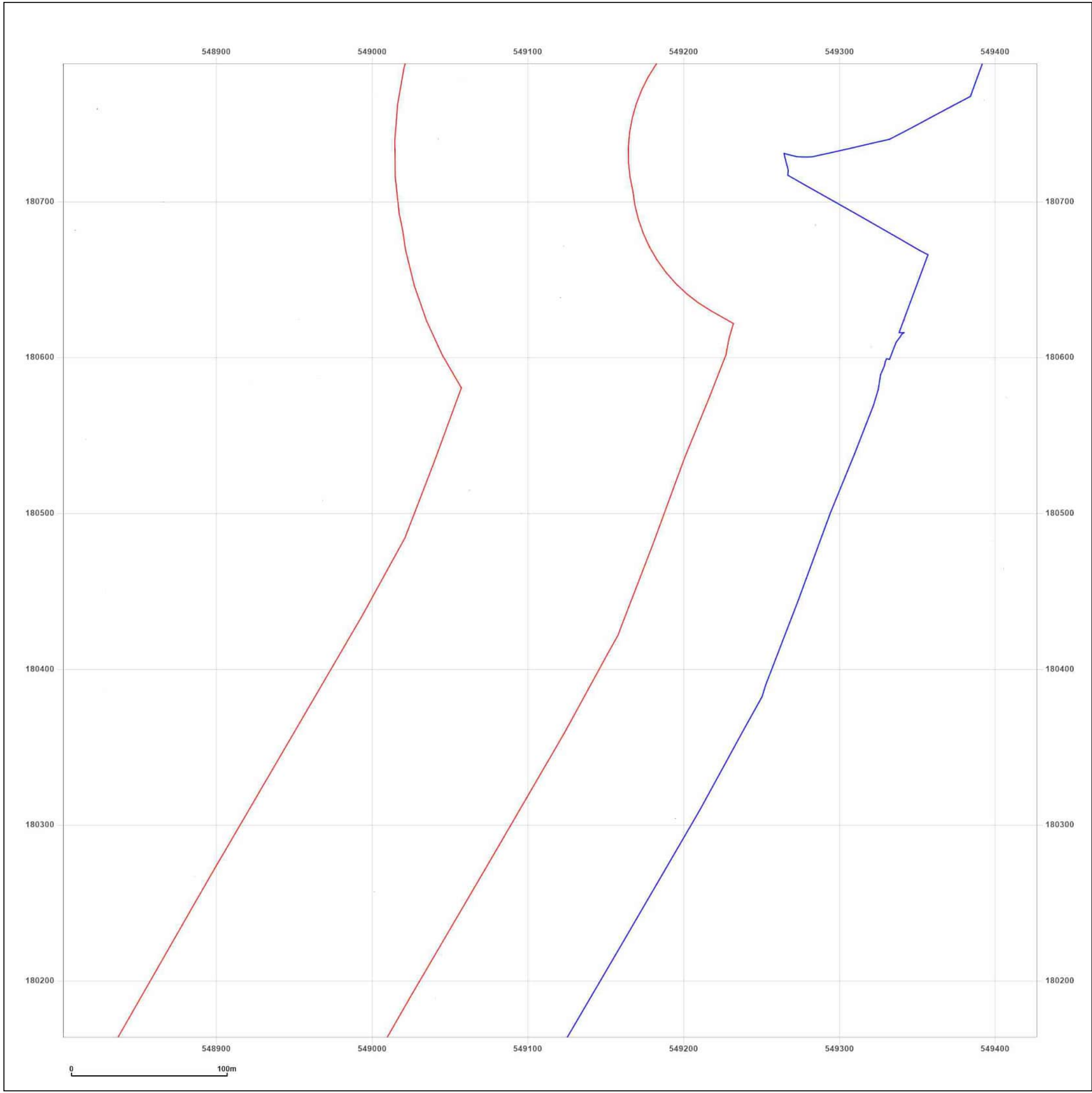


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Site Details:

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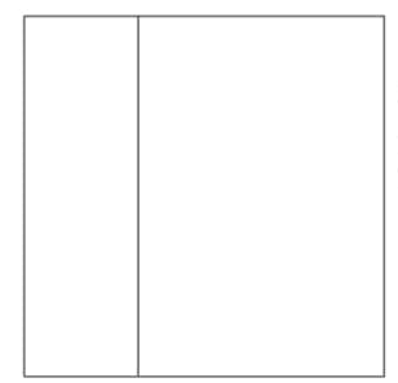
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Report Ref: GS-QCE-212-D95-XTT_LS_1_2
Grid Ref: 549114, 180476

Map Name: National Grid

Map date: 1957

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1957
Revised 1957
Edition 1958
Copyright N/A
Levelled 1953

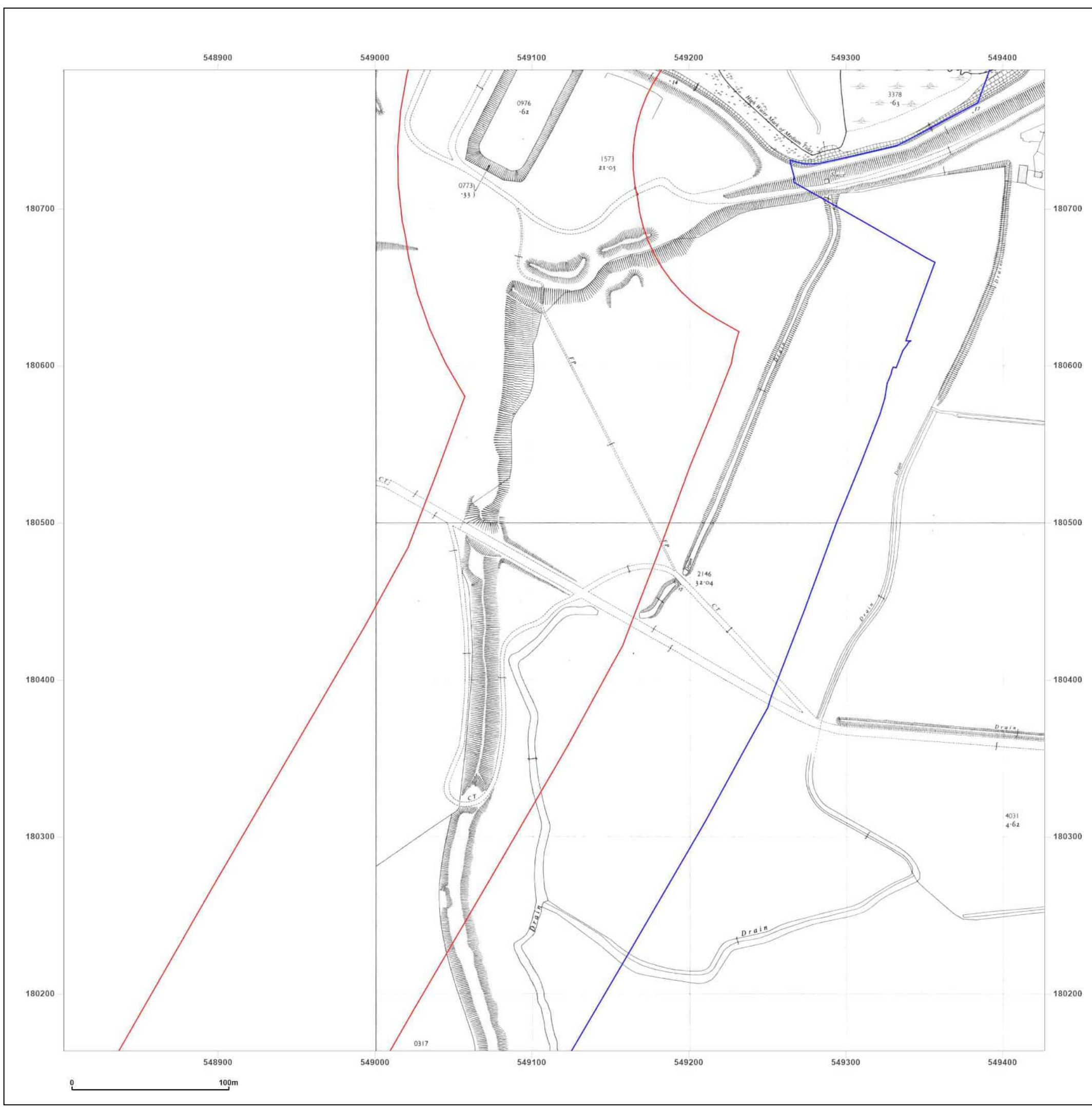


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_2
Grid Ref: 549114, 180476

Map Name: National Grid

Map date: 1957

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953

Surveyed 1957
Revised 1957
Edition 1958
Copyright N/A
Levelled 1953

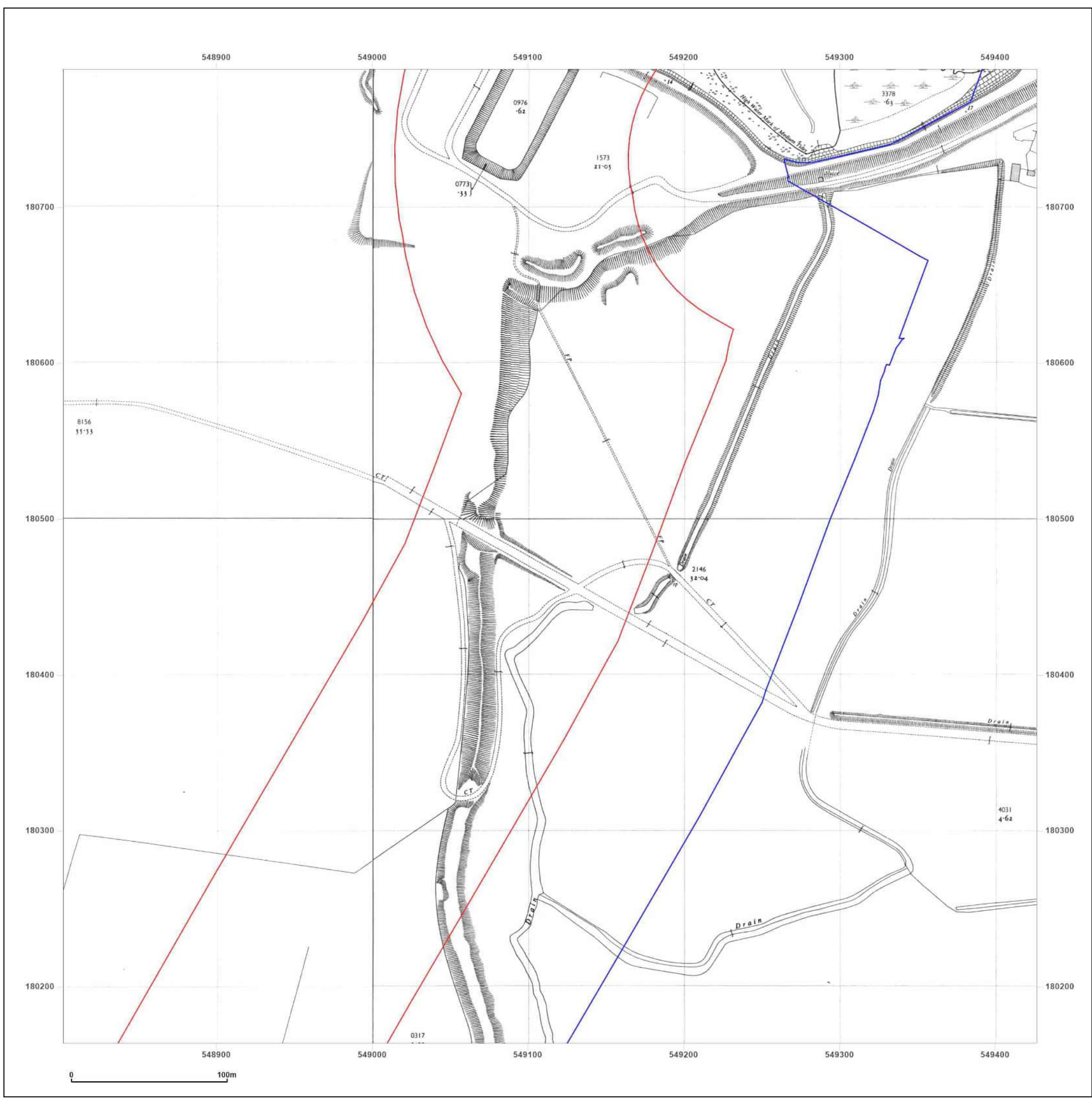


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Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_2
Grid Ref: 549114, 180476

Map Name: National Grid

Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1957
Revised 1969
Edition 1970
Copyright N/A
Levelled N/A

Surveyed N/A
Revised 1968
Edition N/A
Copyright 1970
Levelled 1953

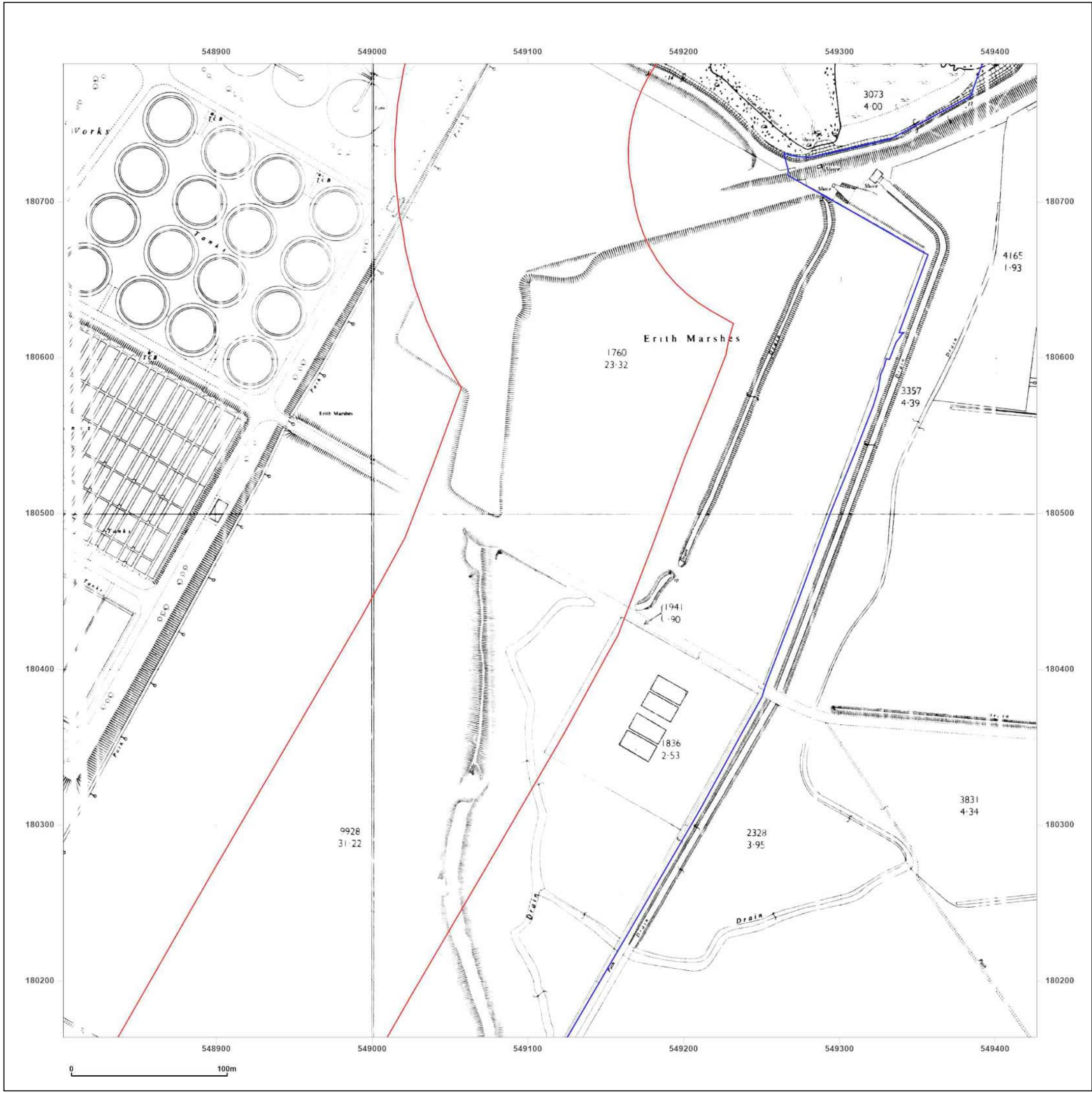


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_3
Grid Ref: 549114, 181101

Map Name: County Series

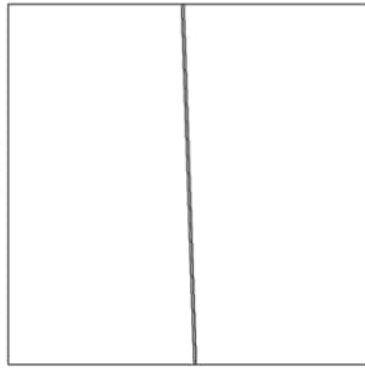
Map date: 1864

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1864
Revised 1864
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1864
Revised 1864
Edition N/A
Copyright N/A
Levelled N/A

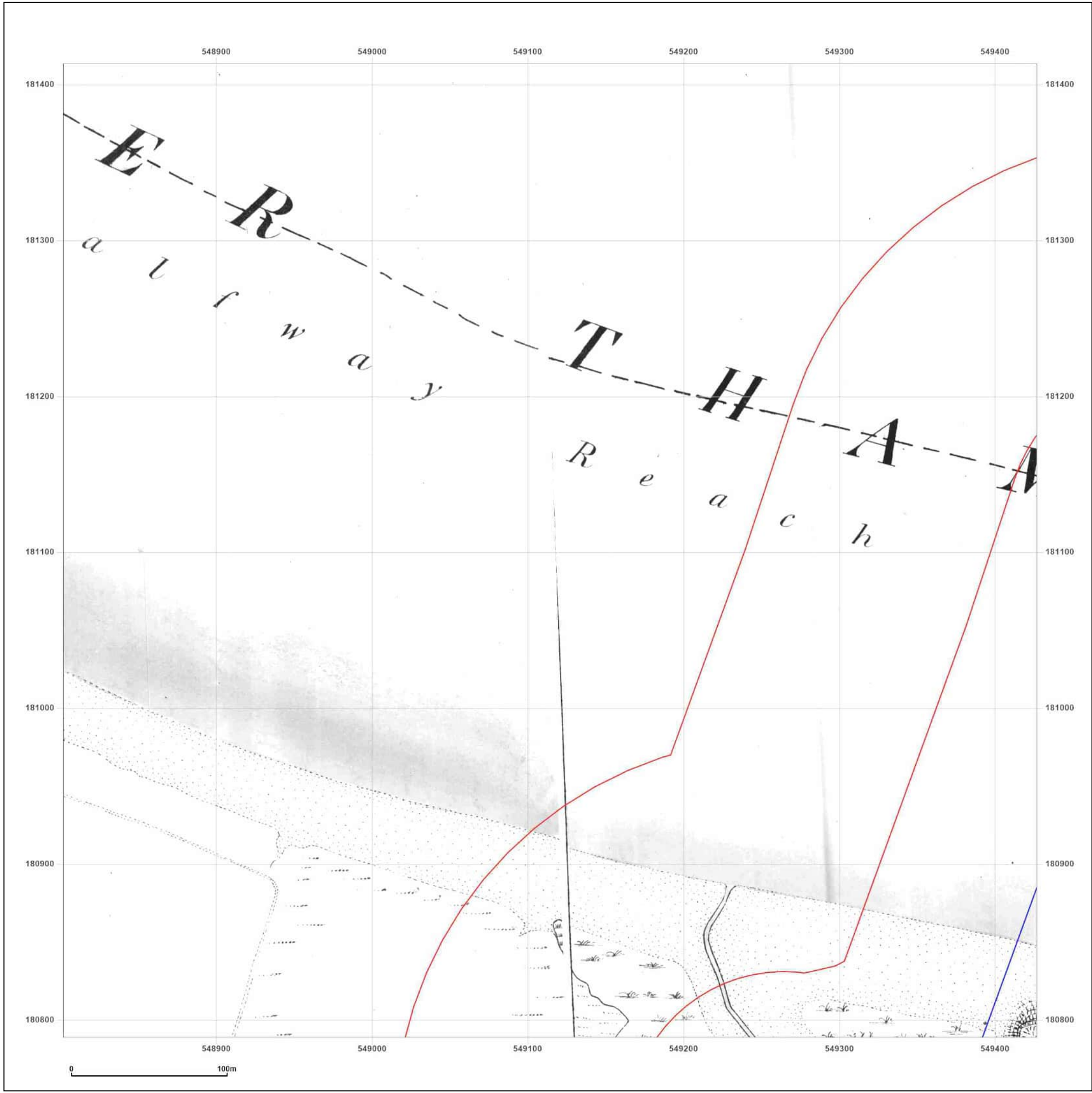


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

549656.6233563919,180548.34
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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_3
Grid Ref: 549114, 181101

Map Name: County Series

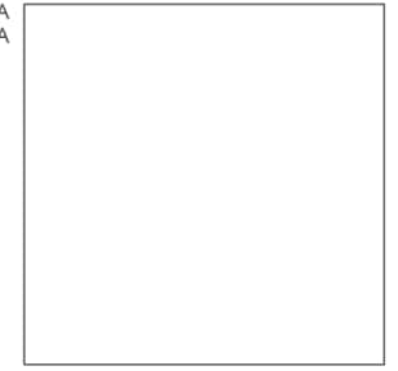
Map date: 1865

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1865
Revised 1865
Edition N/A
Copyright N/A
Levelled N/A

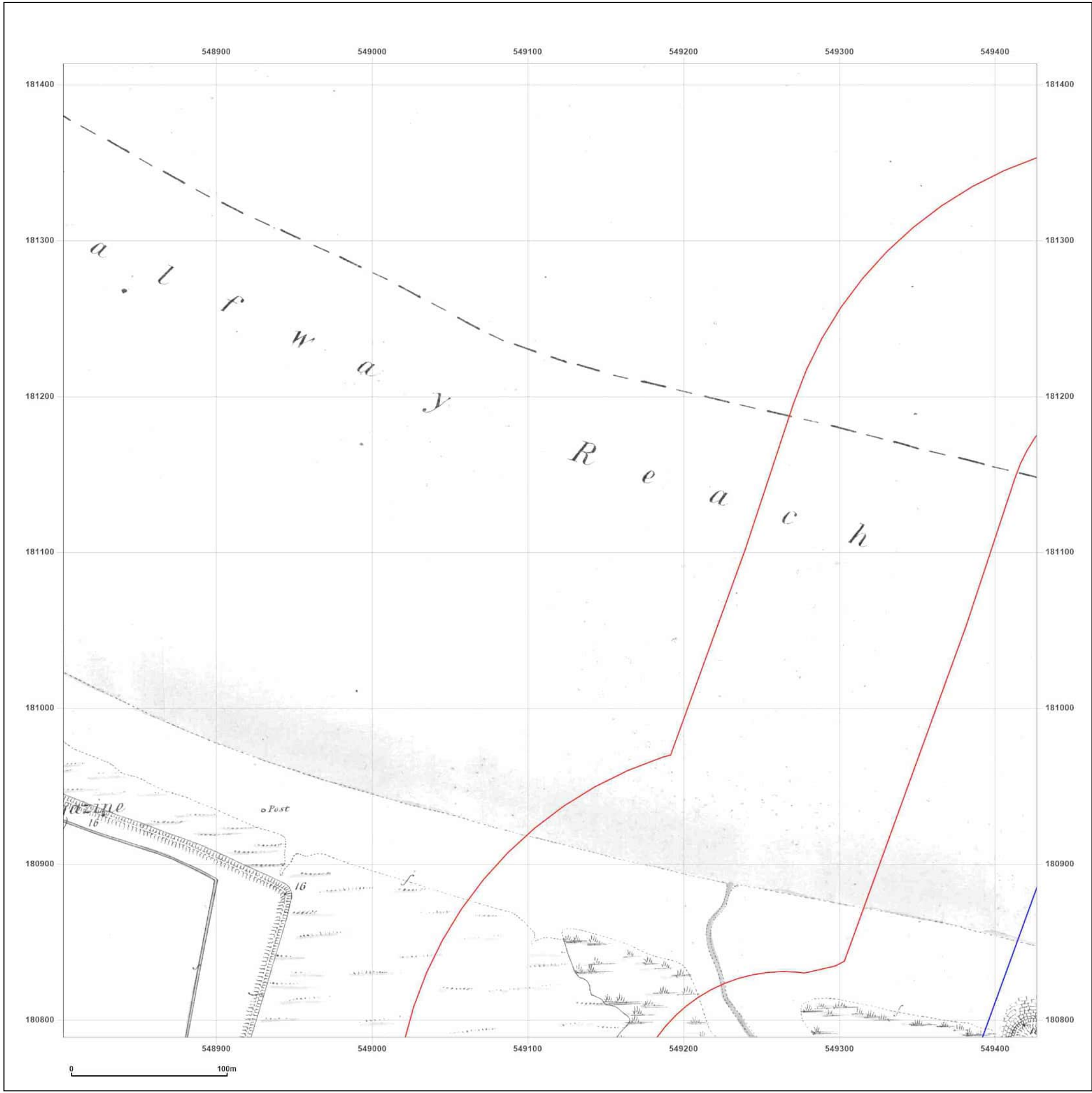


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Production date: 26 October 2023

Map legend available at:
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Site Details:

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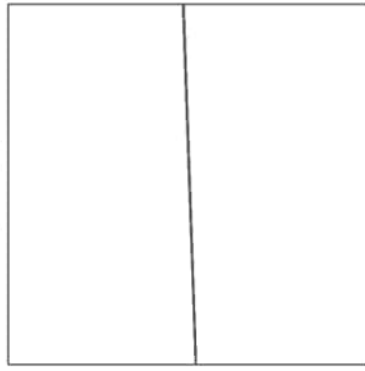
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Report Ref: GS-QCE-212-D95-XTT_LS_1_3
Grid Ref: 549114, 181101

Map Name: County Series

Map date: 1864-1867

Scale: 1:2,500

Printed at: 1:2,500

Surveyed 1864
Revised 1864
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A

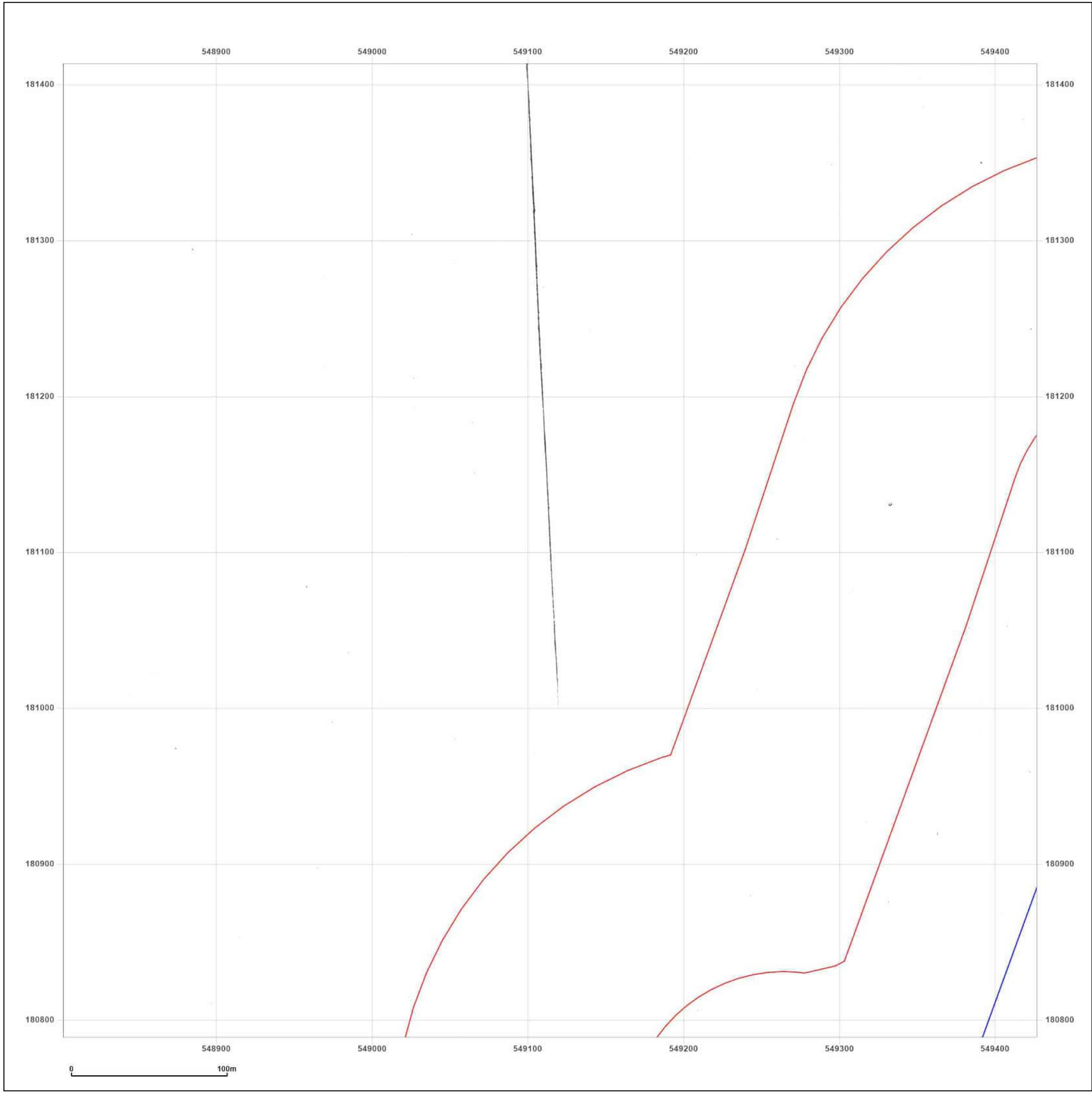


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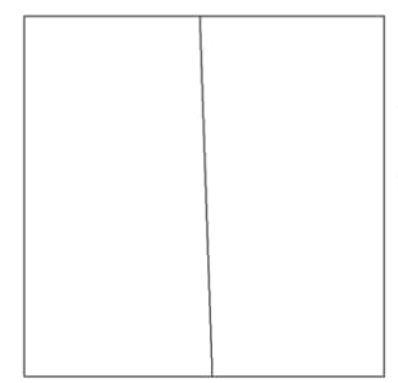
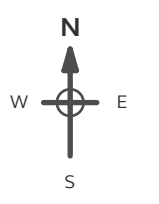


Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_3
Grid Ref: 549114, 181101

Map Name: County Series
Map date: 1867
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A

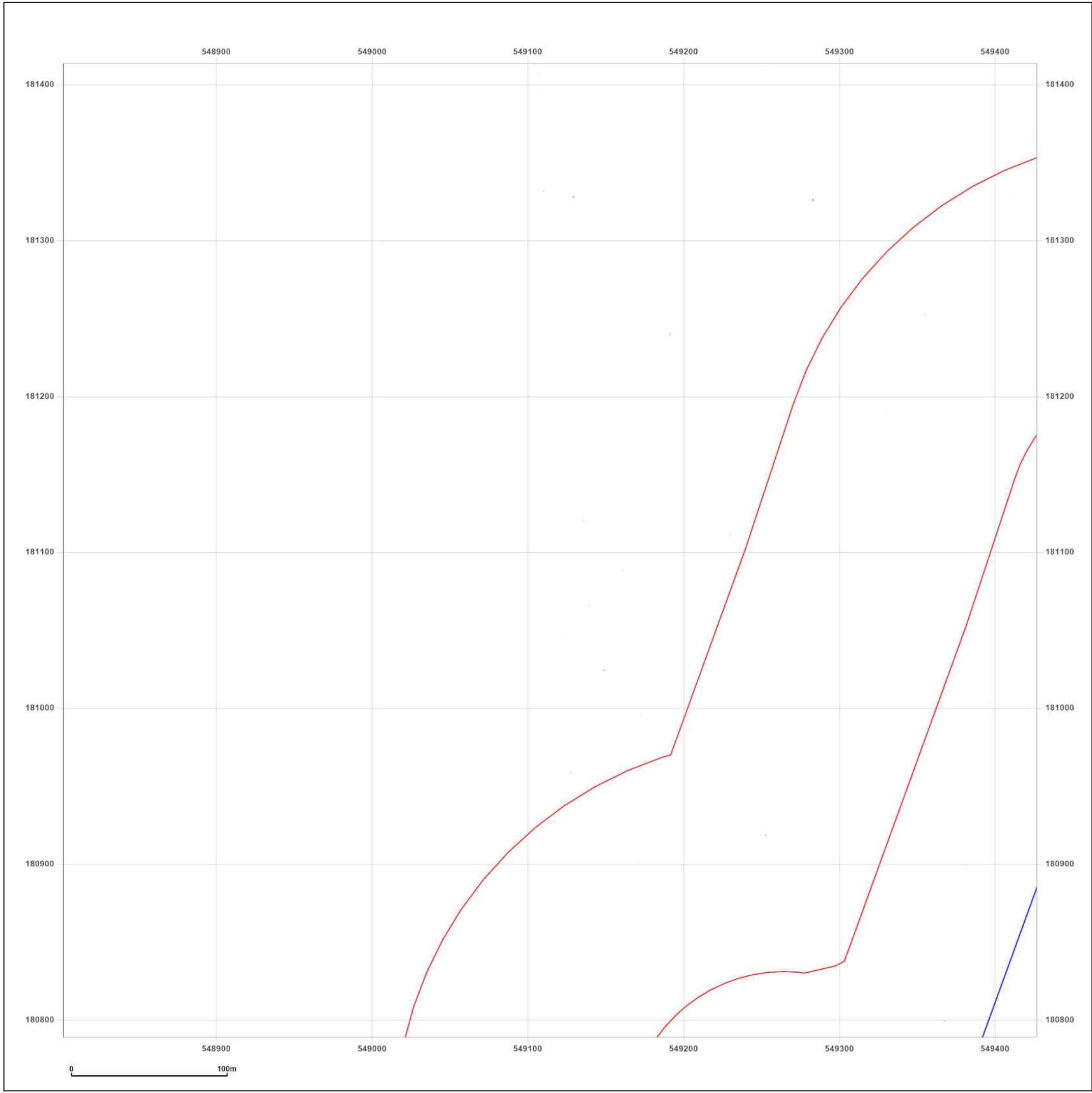


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Production date: 26 October 2023

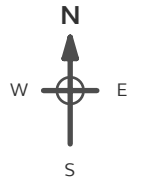
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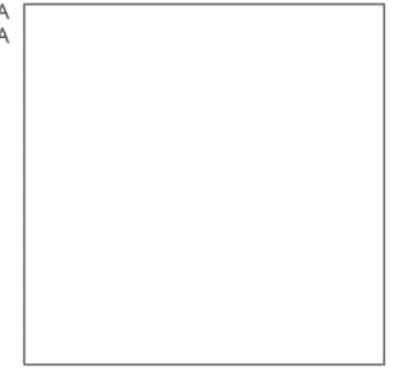
Site Details:
 549656.6233563919,180548.34
 620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_3
Grid Ref: 549114, 181101

Map Name: County Series
Map date: 1897
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1897
 Revised 1897
 Edition N/A
 Copyright N/A
 Levelled N/A

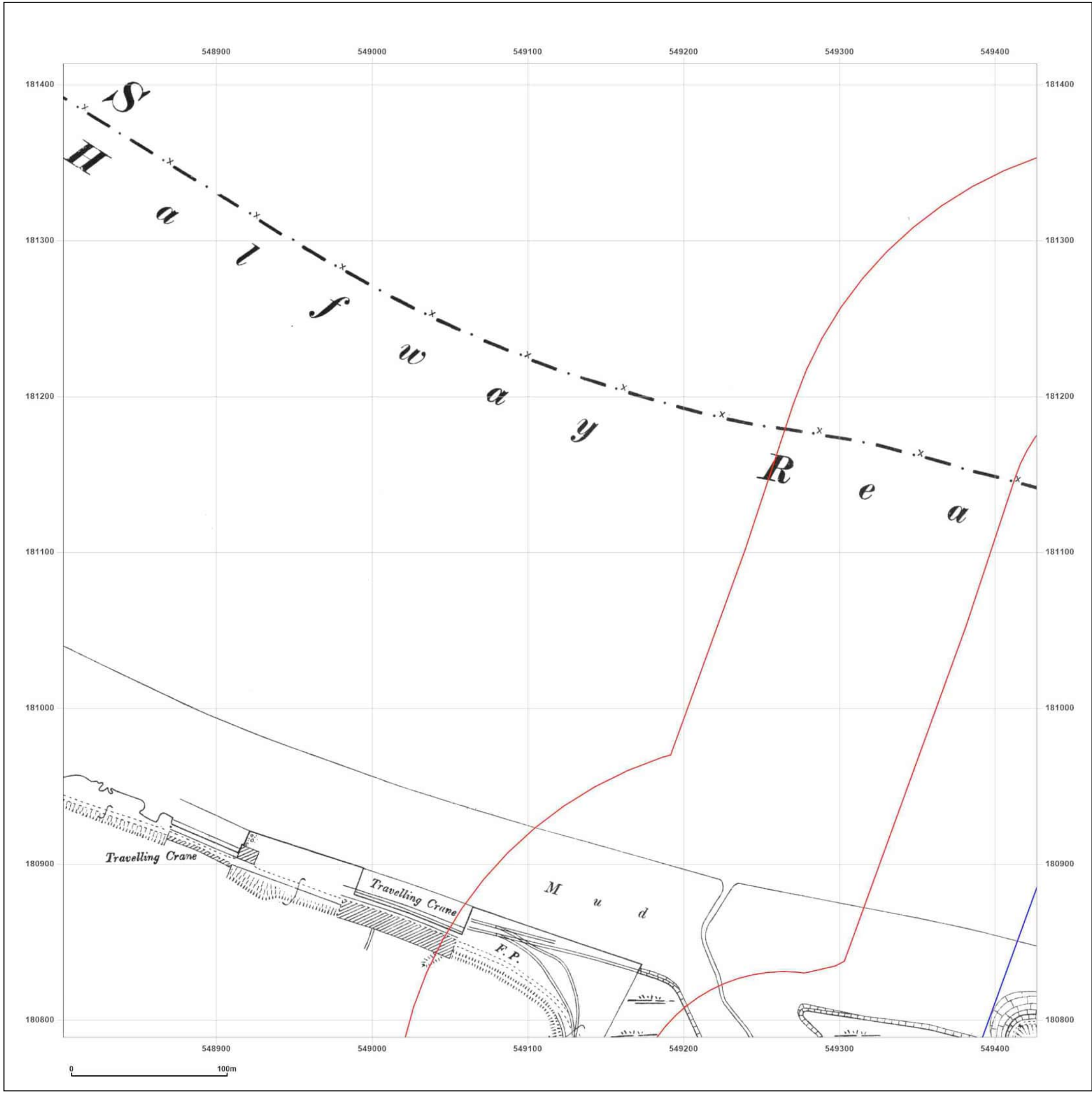


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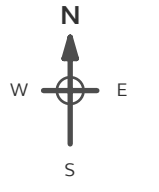
Map legend available at:
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Site Details:
 549656.6233563919,180548.34
 620791927

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Report Ref: GS-QCE-212-D95-XTT_LS_1_3
Grid Ref: 549114, 181101

Map Name: County Series
Map date: 1897
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1897
 Revised 1897
 Edition N/A
 Copyright N/A
 Levelled N/A

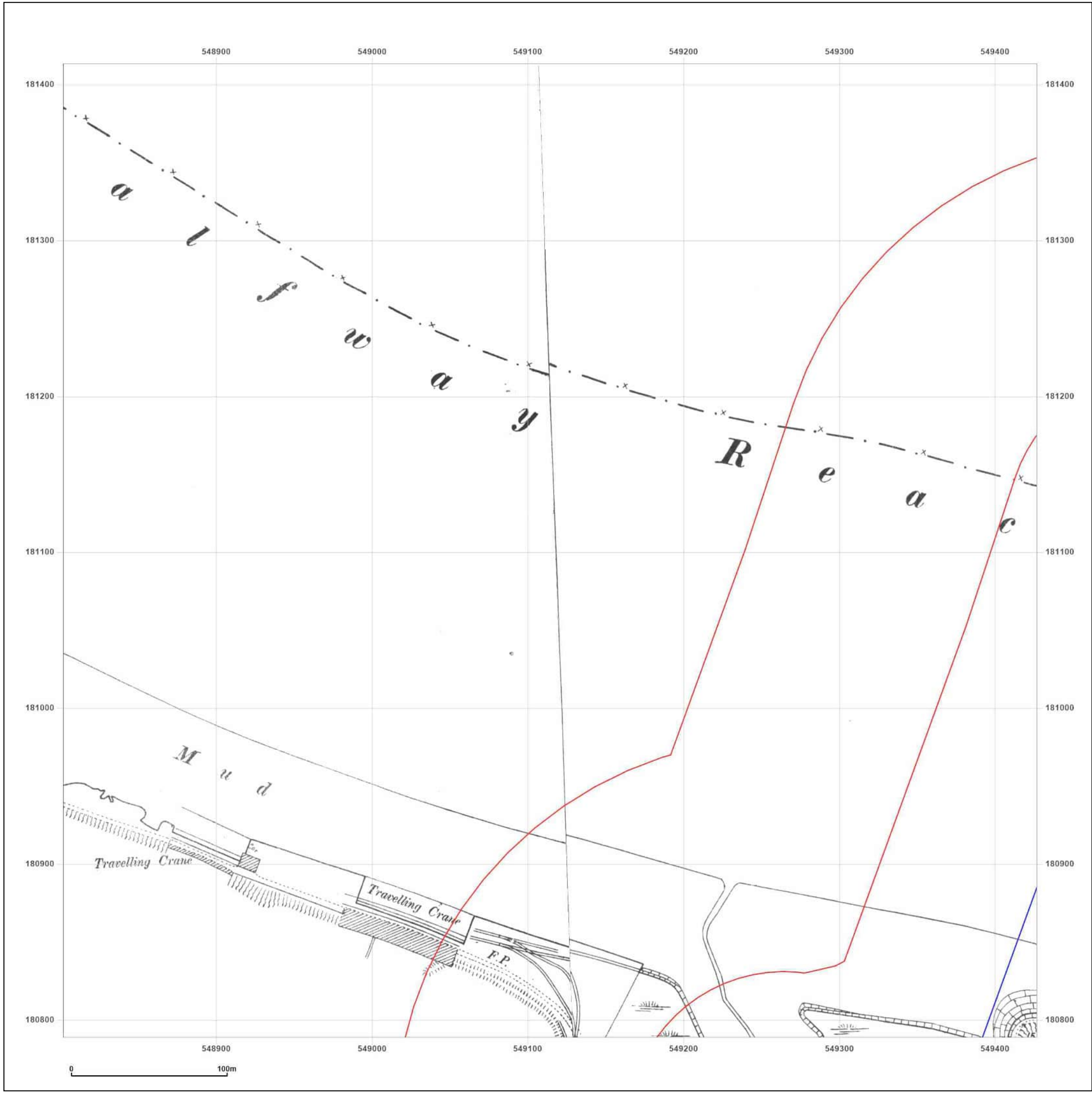


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Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_3
Grid Ref: 549114, 181101

Map Name: County Series

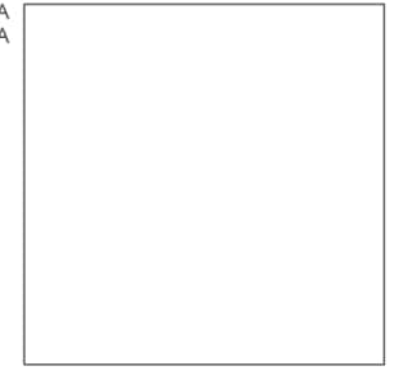
Map date: 1909

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

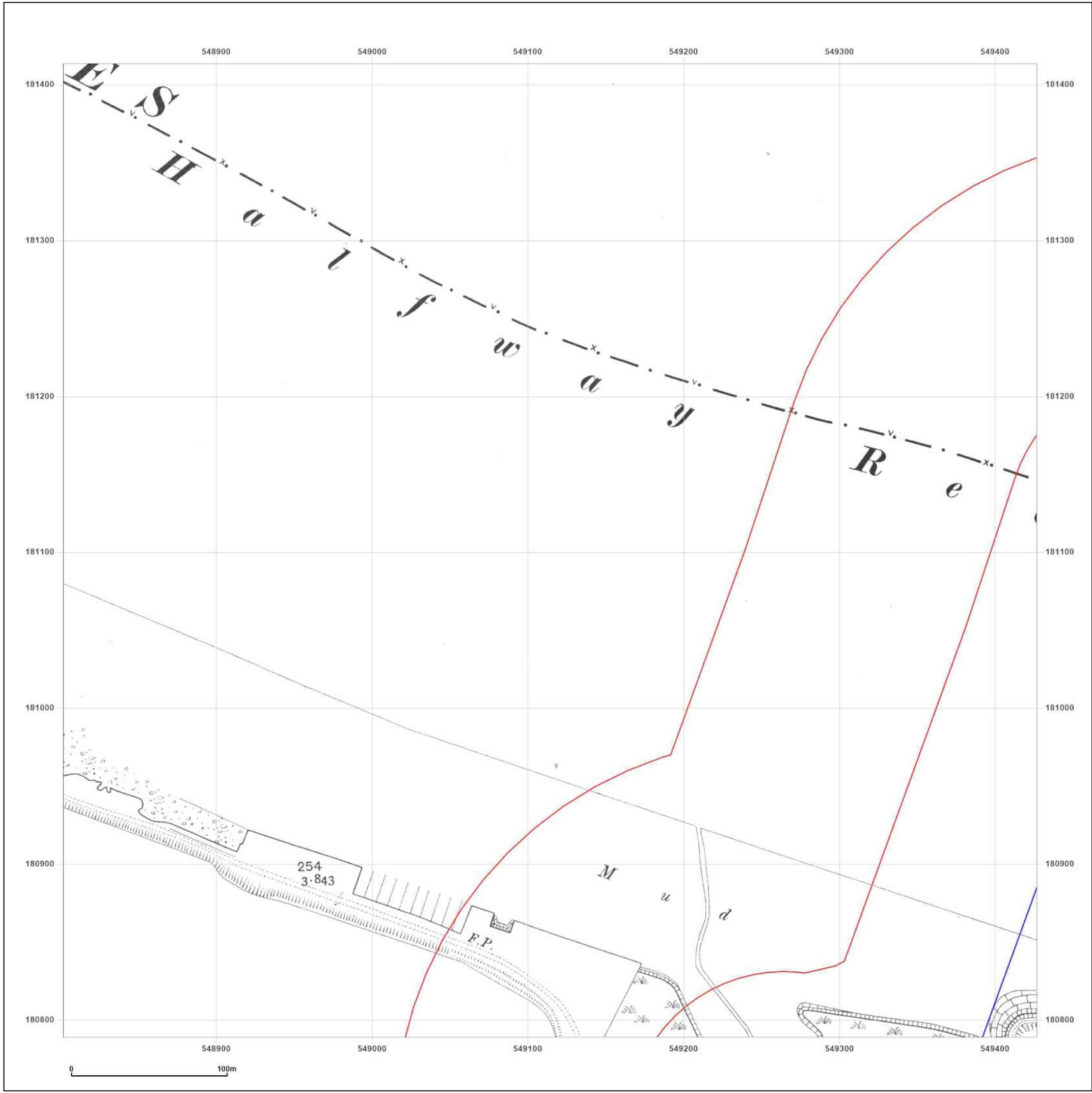


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_3
Grid Ref: 549114, 181101

Map Name: County Series

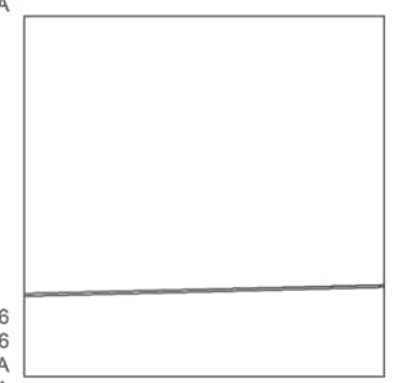
Map date: 1916

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1916
Revised 1916
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1916
Revised 1916
Edition N/A
Copyright N/A
Levelled N/A

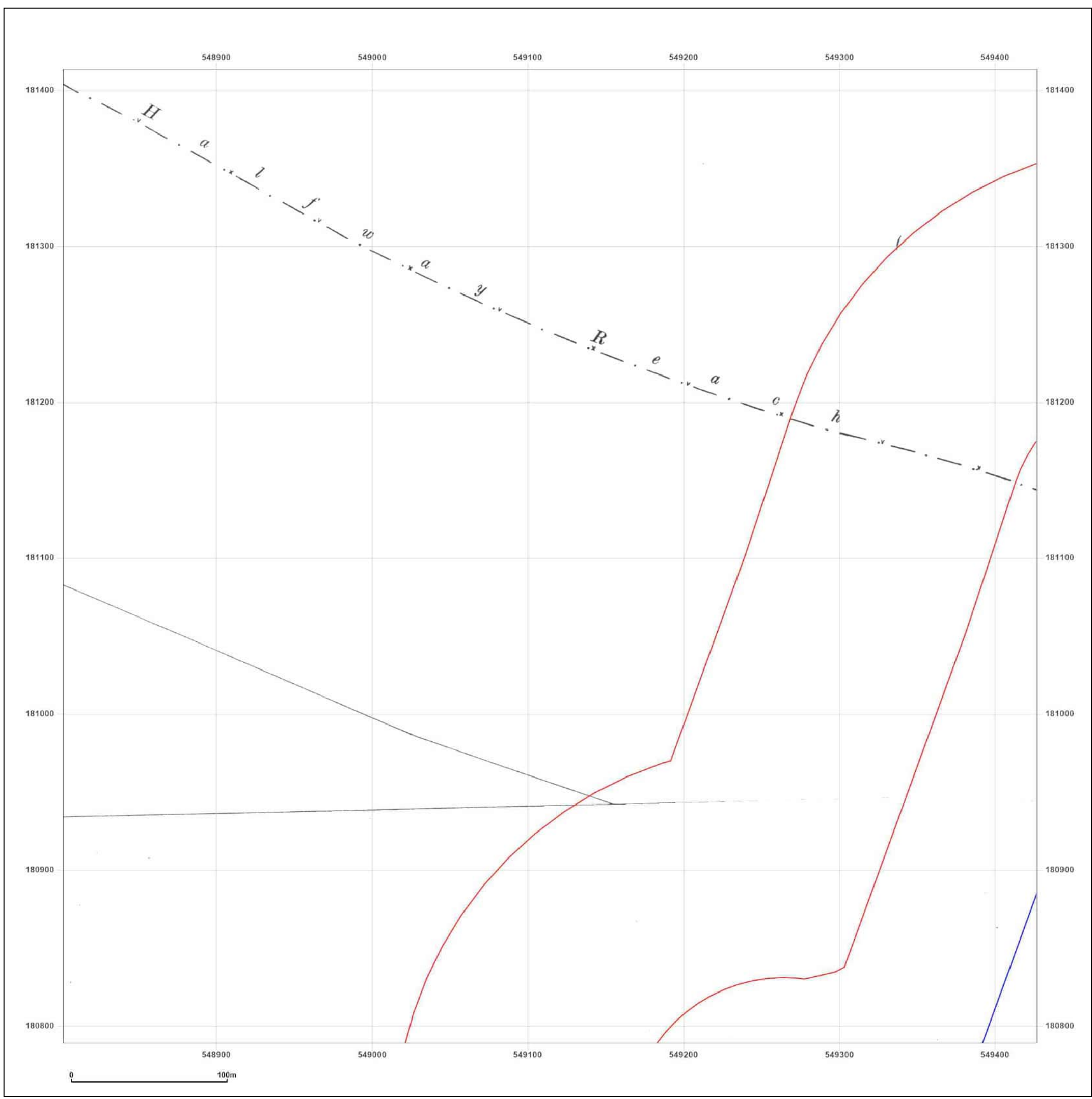


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_3
Grid Ref: 549114, 181101

Map Name: County Series

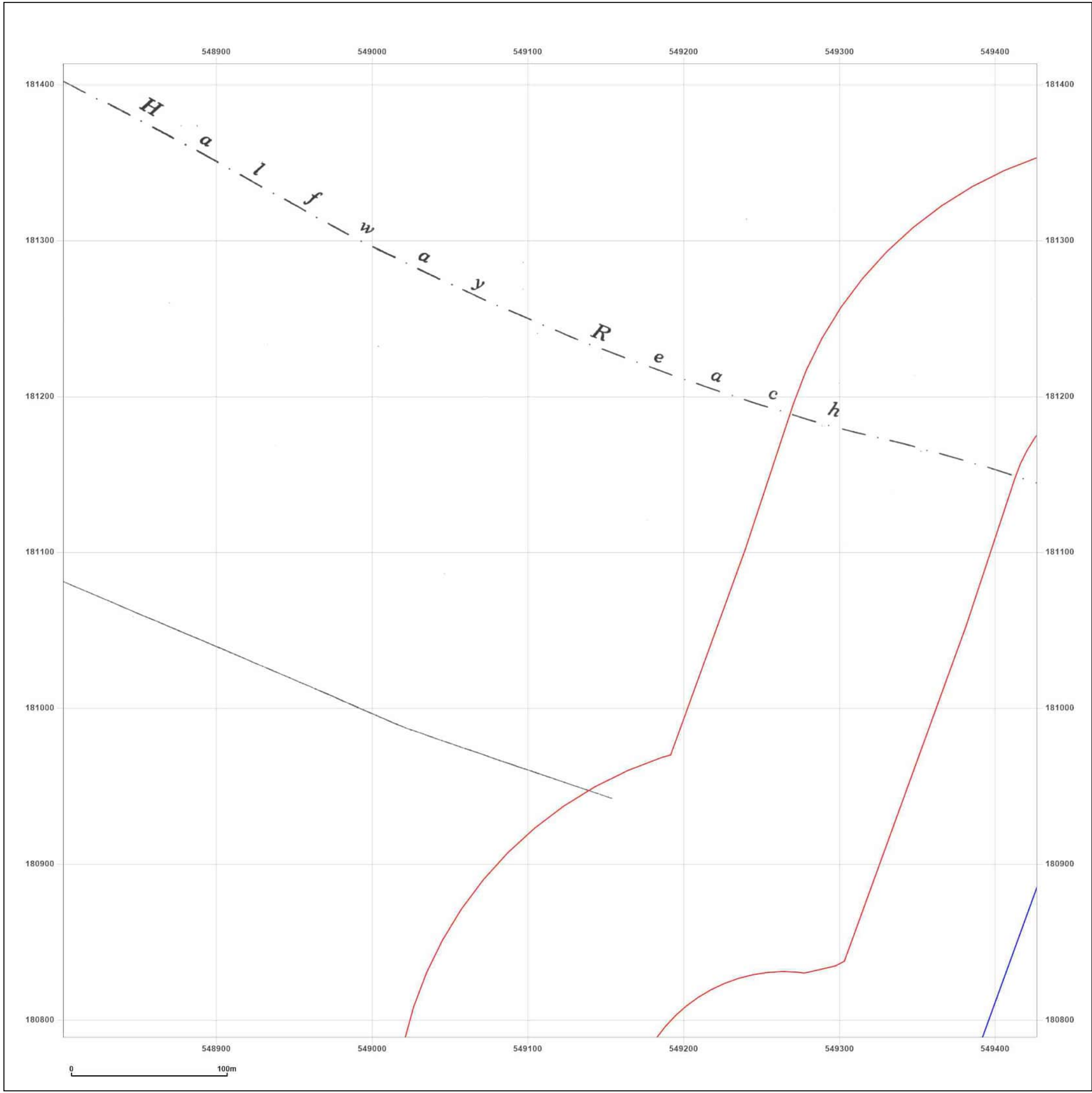
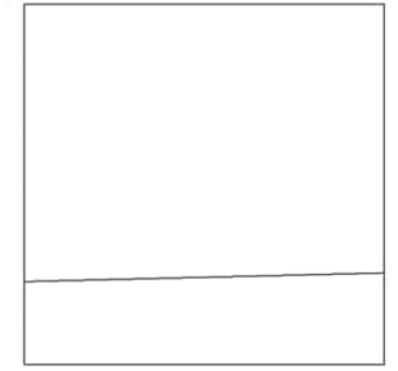
Map date: 1940

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1940
Revised 1940
Edition N/A
Copyright N/A
Levelled N/A



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Production date: 26 October 2023

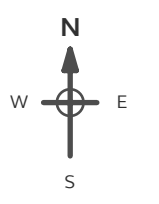
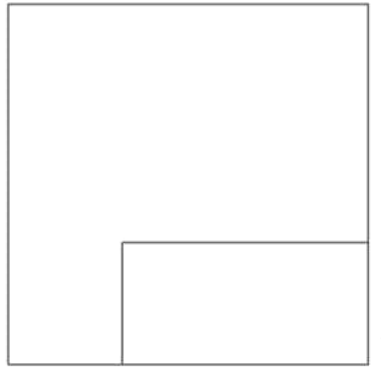
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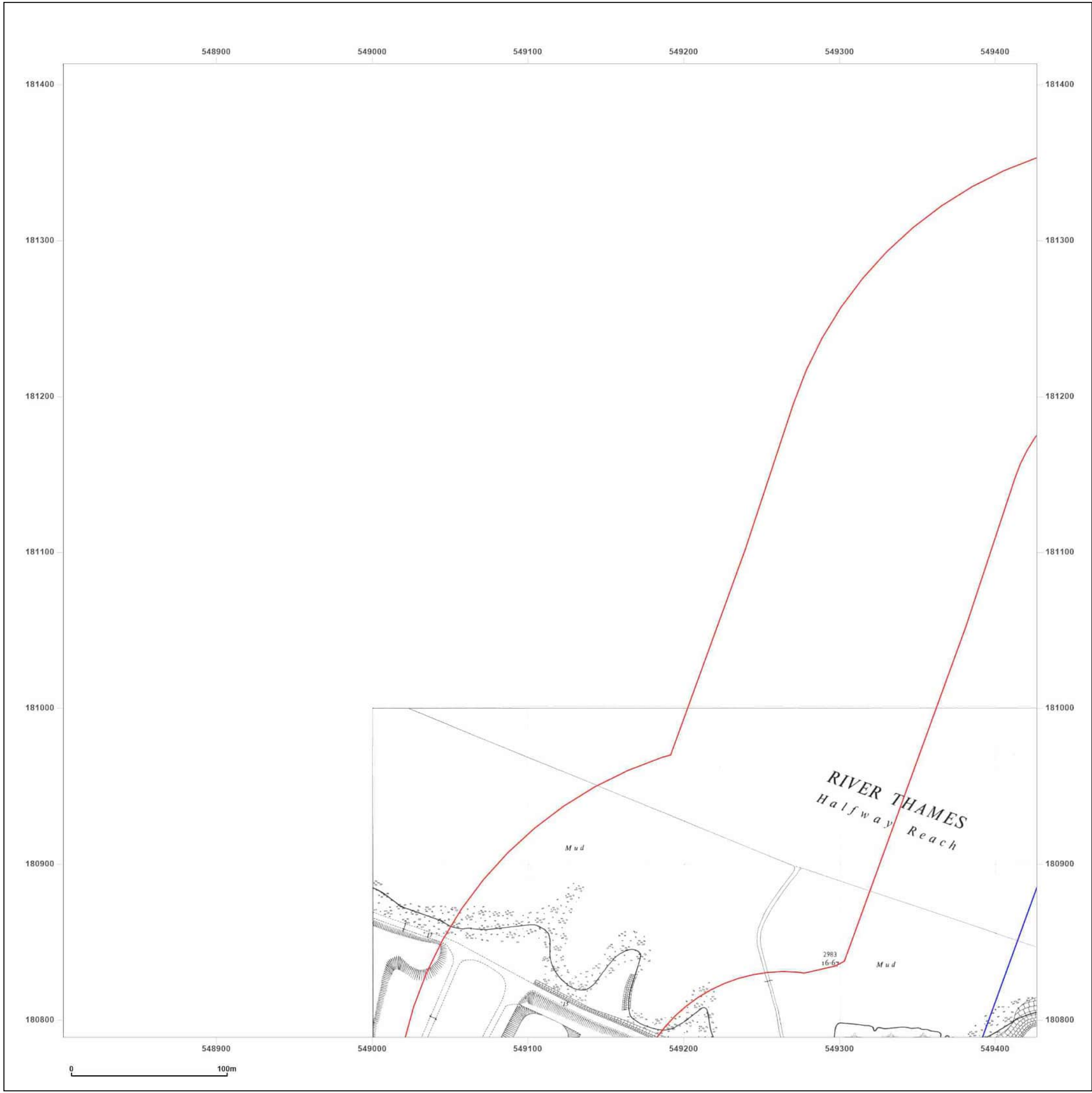
549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_3
Grid Ref: 549114, 181101

Map Name: National Grid
Map date: 1957
Scale: 1:2,500
Printed at: 1:2,500

Surveyed 1957
Revised 1957
Edition 1958
Copyright N/A
Levelled 1953



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Production date: 26 October 2023

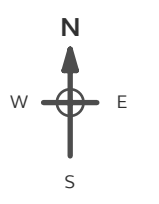
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Site Details:

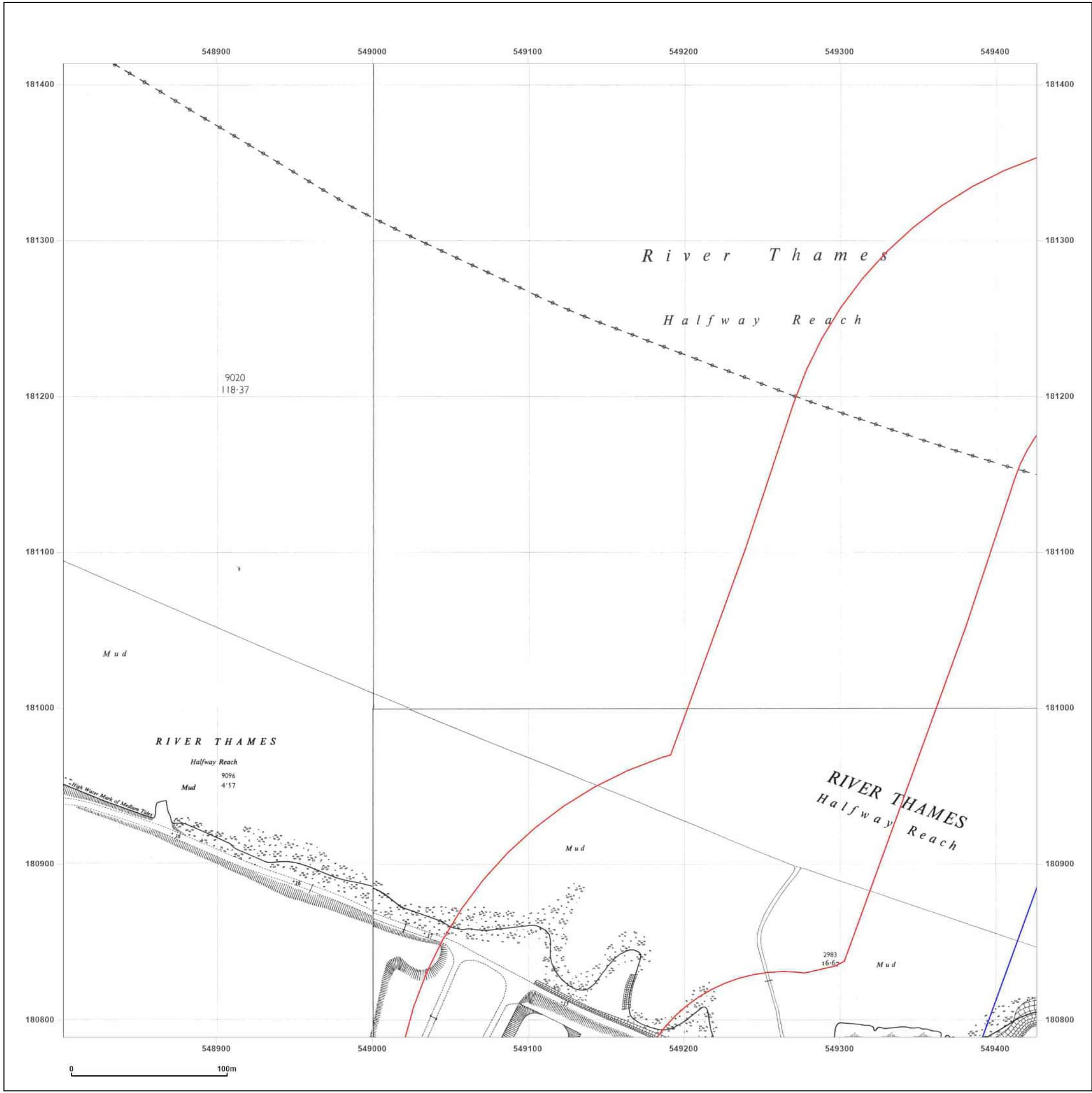
549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_3
Grid Ref: 549114, 181101

Map Name: National Grid
Map date: 1957-1962
Scale: 1:2,500
Printed at: 1:2,500



Surveied 1962 Revised 1962 Edition 1966 Copyright 1966 Levelled 1953	
Surveied 1957 Revised 1957 Edition N/A Copyright N/A Levelled 1953	Surveied 1957 Revised 1957 Edition 1958 Copyright N/A Levelled 1953

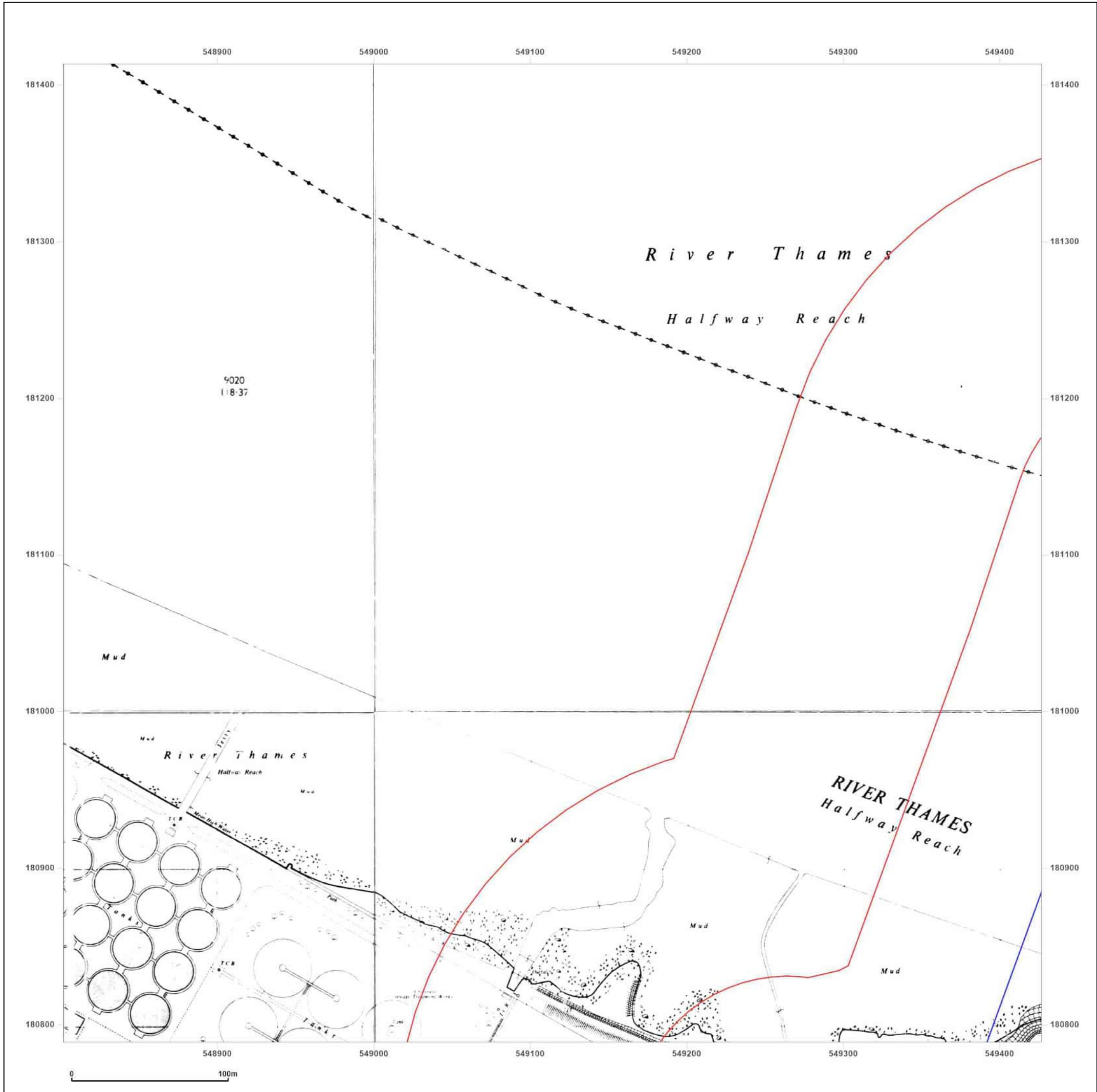


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Production date: 26 October 2023

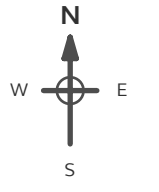
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Site Details:
 549656.6233563919,180548.34
 620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_1_3
Grid Ref: 549114, 181101

Map Name: National Grid
Map date: 1966-1970
Scale: 1:2,500
Printed at: 1:2,500



Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A
Surveyed 1957 Revised 1969 Edition 1970 Copyright N/A Levelled N/A	Surveyed N/A Revised 1968 Edition N/A Copyright 1970 Levelled 1953



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Production date: 26 October 2023

Map legend available at: [Redacted]

Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_1
Grid Ref: 549739, 179851

Map Name: County Series

Map date: 1865

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1865
Revised 1865
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1865
Revised 1865
Edition N/A
Copyright N/A
Levelled N/A

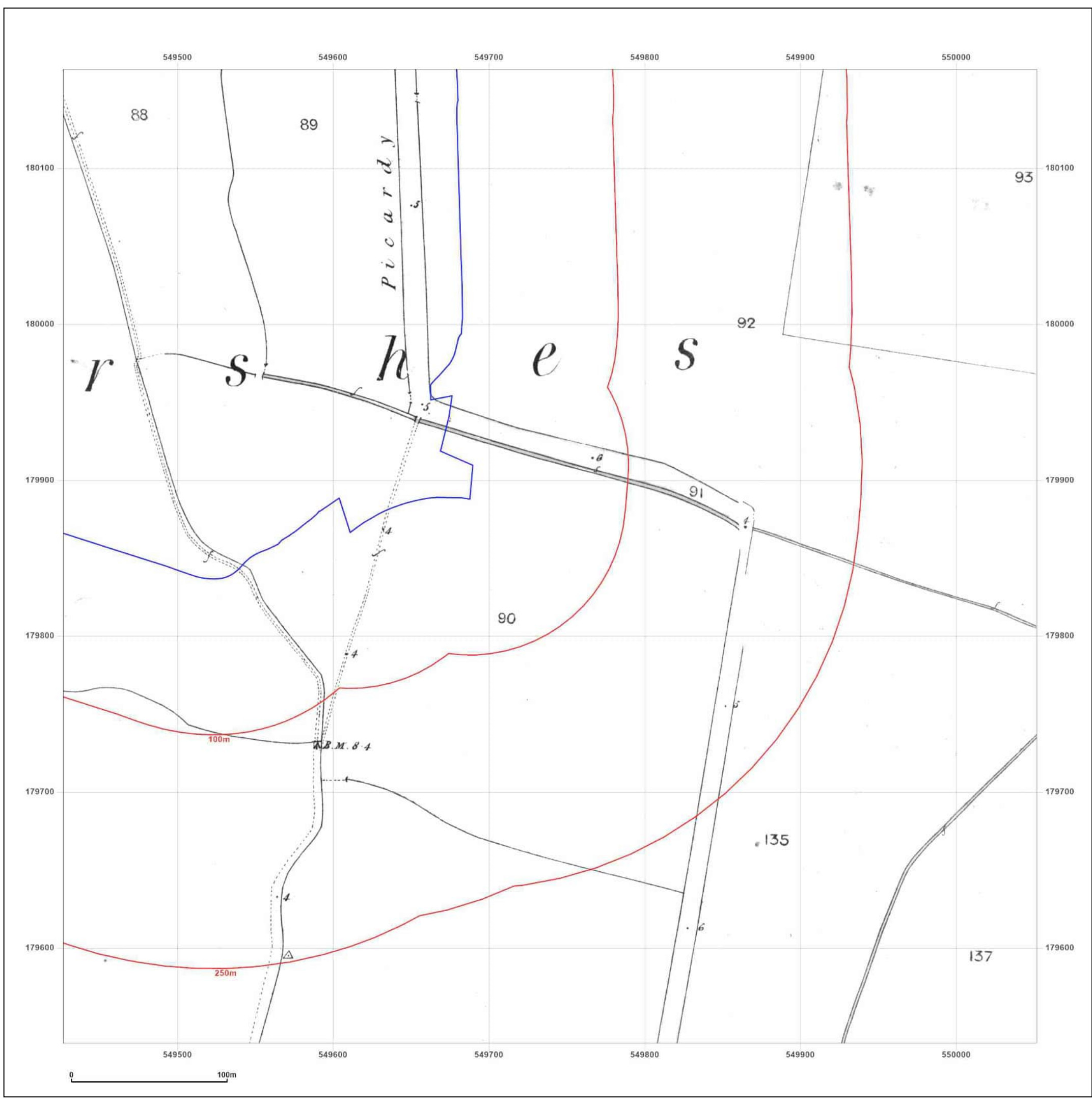


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_1
Grid Ref: 549739, 179851

Map Name: County Series

Map date: 1897

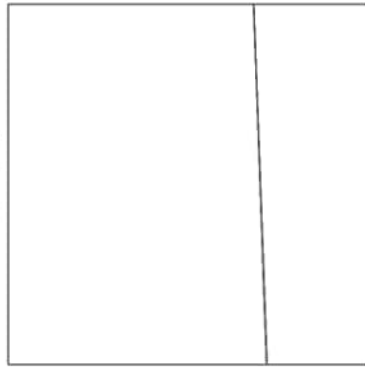
Scale: 1:2,500


Printed at: 1:2,500



Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A



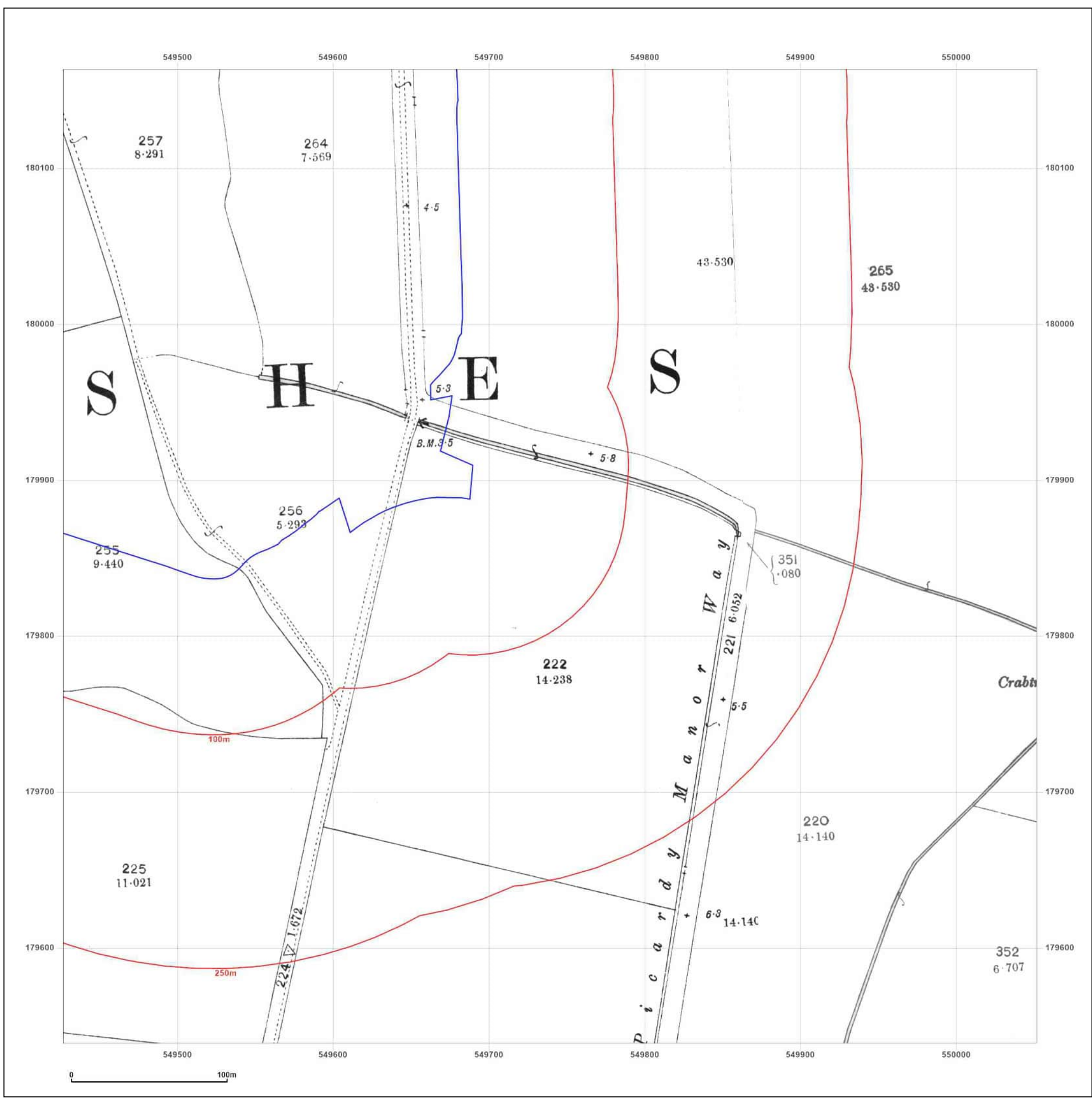


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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_1
Grid Ref: 549739, 179851


Map Name: County Series

Map date: 1897

Scale: 1:2,500


Printed at: 1:2,500





Surveyed 1897
 Revised 1897
 Edition N/A
 Copyright N/A
 Levelled N/A

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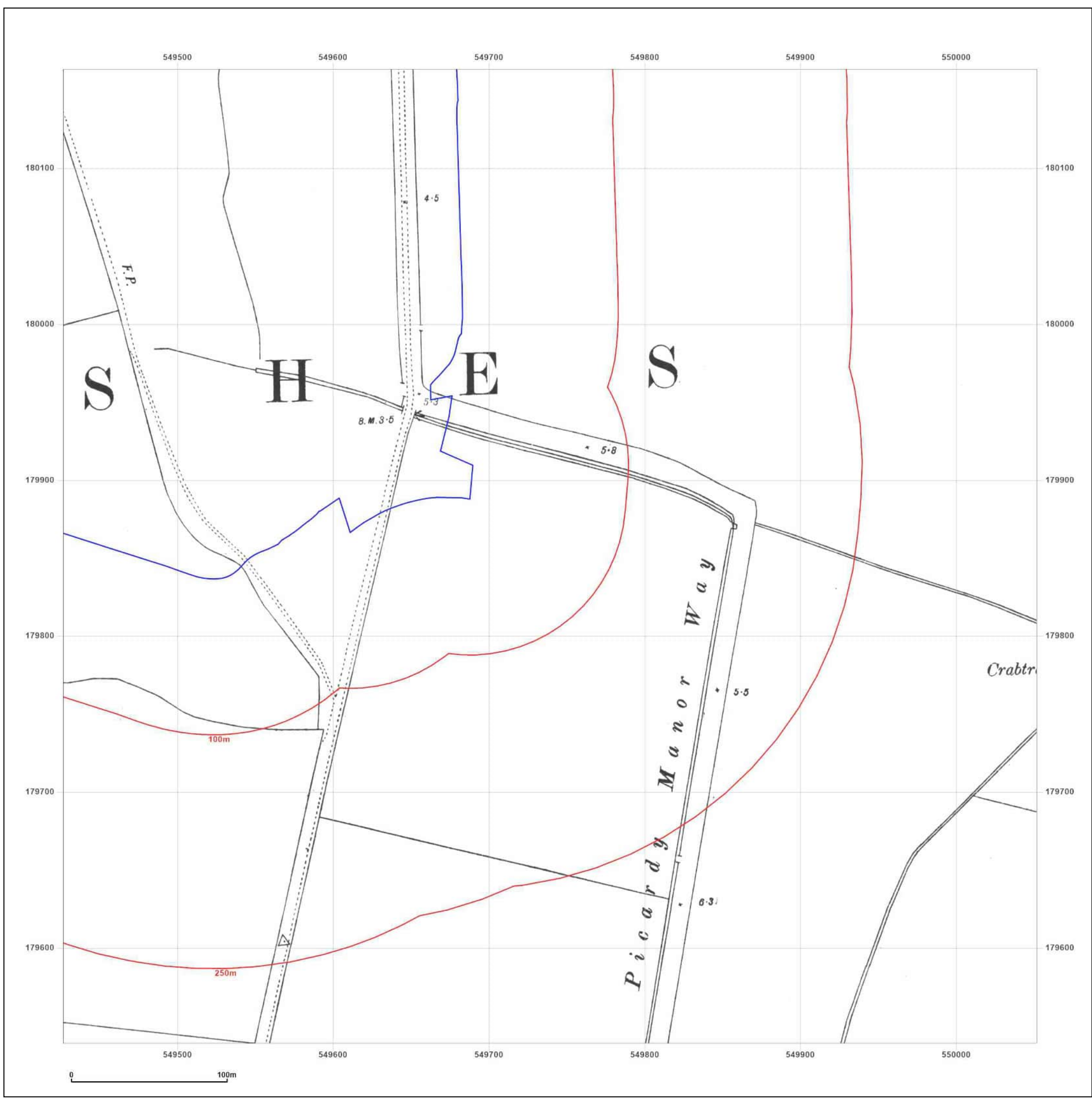


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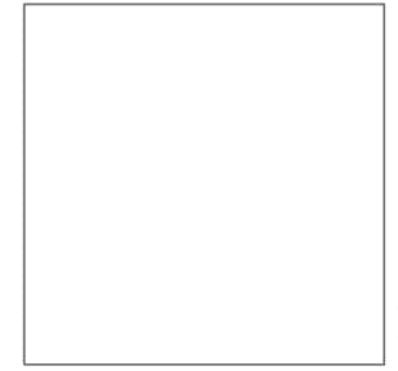
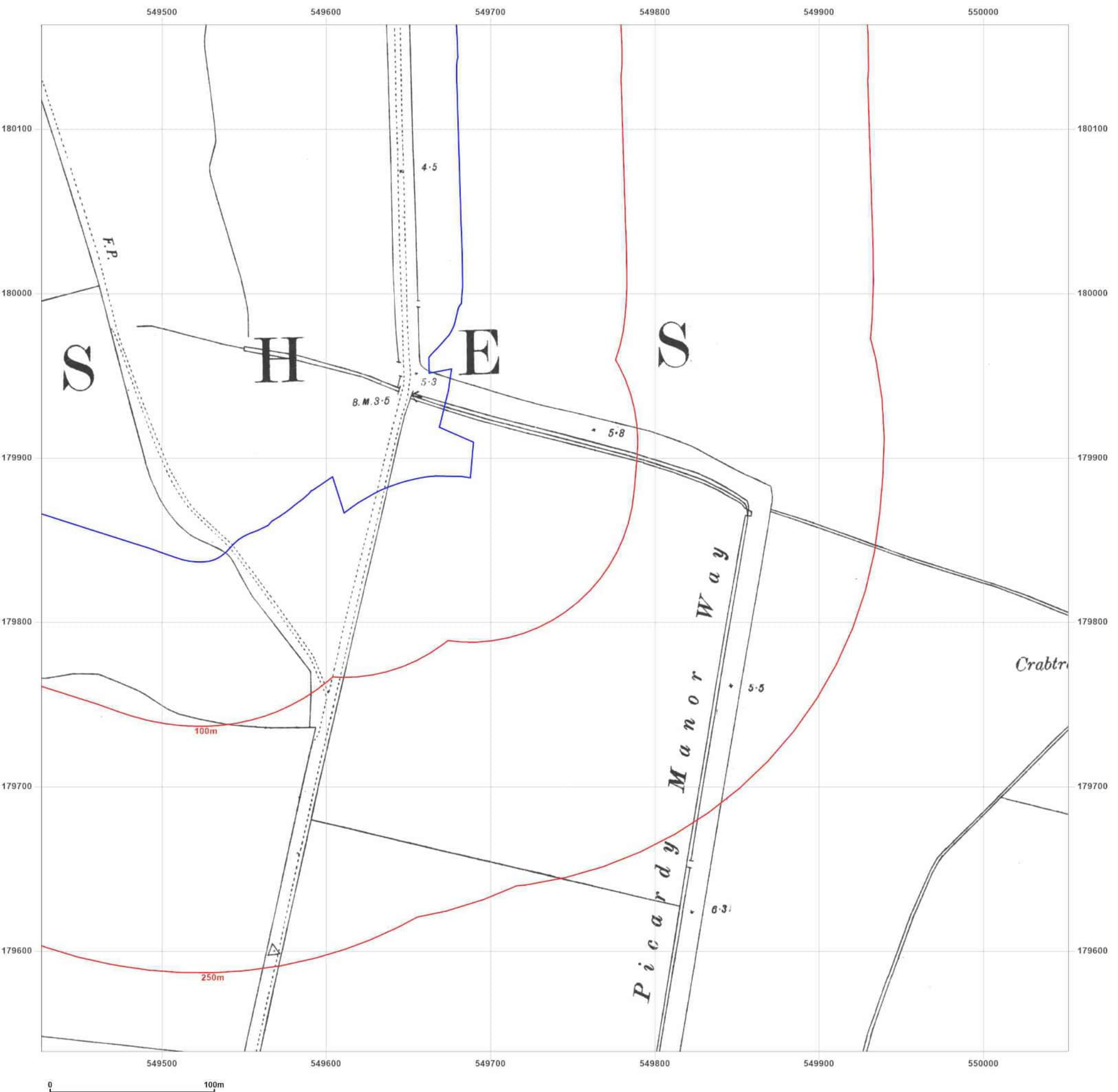
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Report Ref: GS-QCE-212-D95-XTT_LS_2_1
Grid Ref: 549739, 179851

Map Name: County Series

Map date: 1897

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A



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Map legend available at: [REDACTED]

Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_1
Grid Ref: 549739, 179851

Map Name: County Series

Map date: 1909

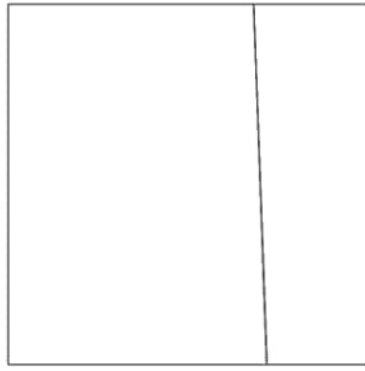
Scale: 1:2,500

Printed at: 1:2,500




Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A



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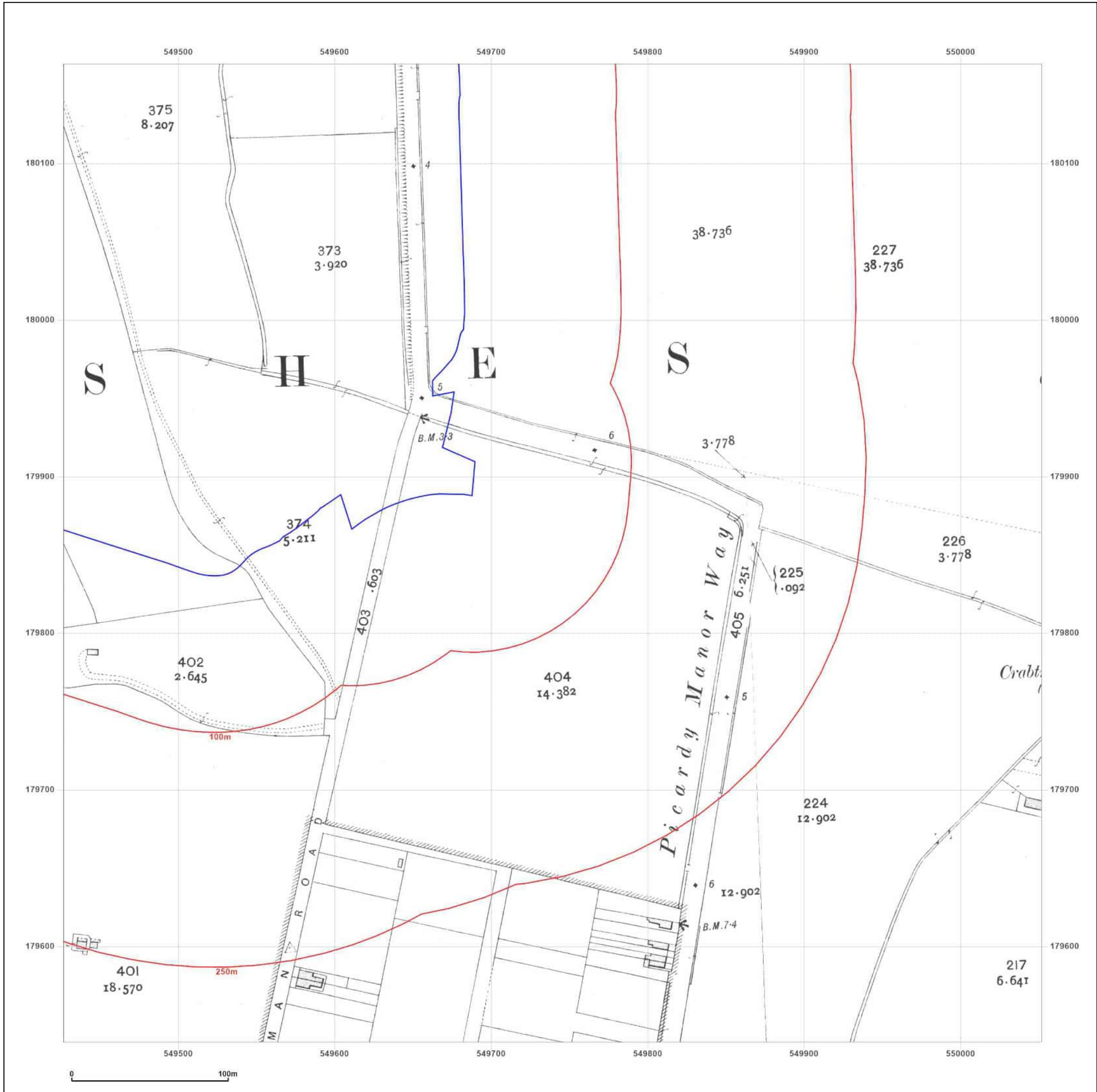


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Production date: 26 October 2023

Map legend available at: [REDACTED]

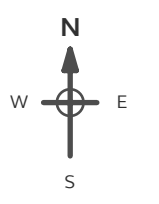


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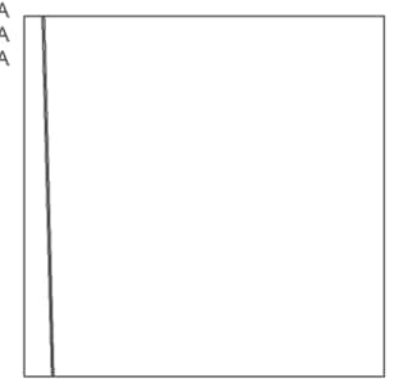
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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_1
Grid Ref: 549739, 179851

Map Name: County Series
Map date: 1916-1920
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1916
Revised 1916
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

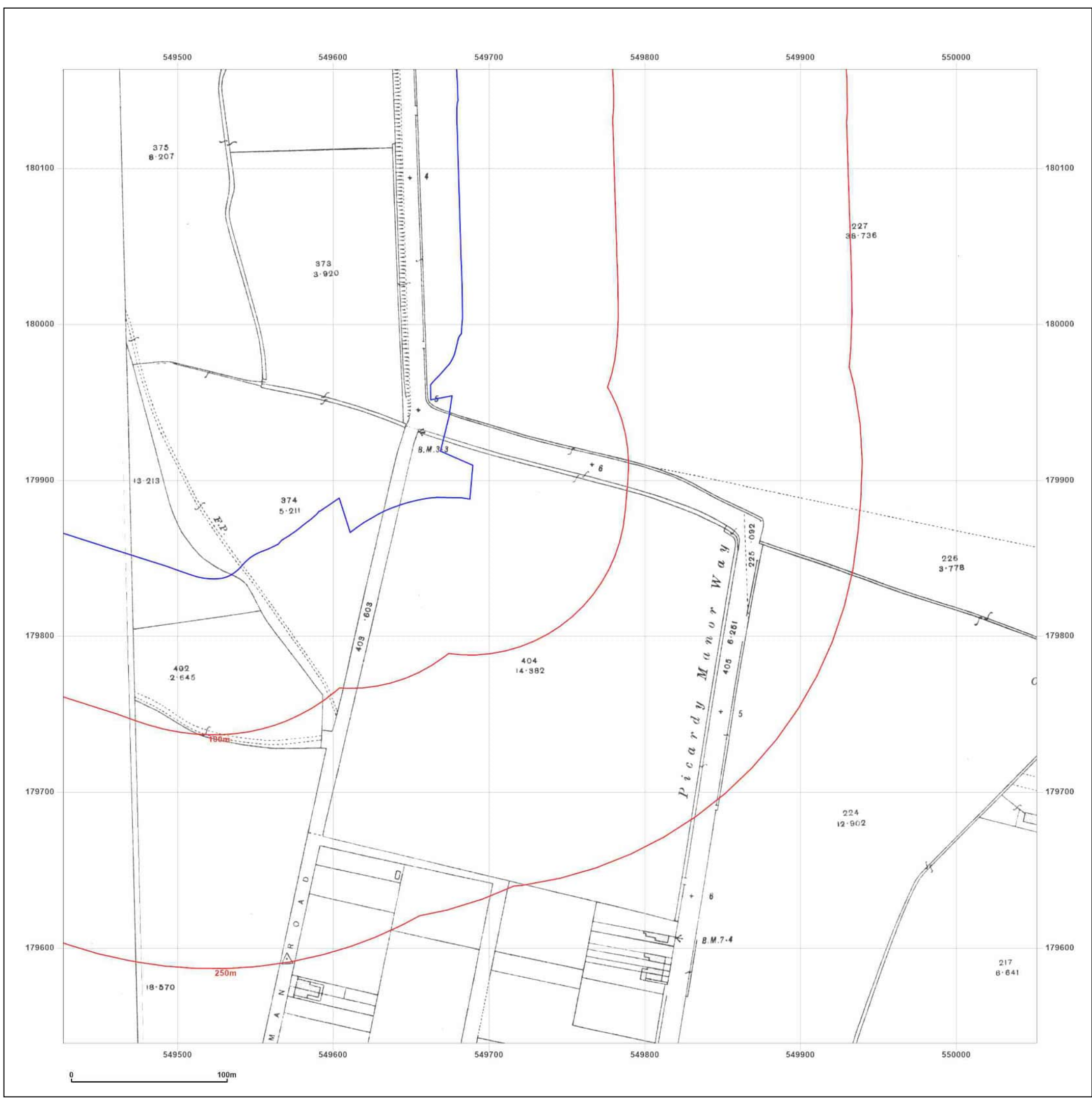


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Production date: 26 October 2023

Map legend available at: [REDACTED]

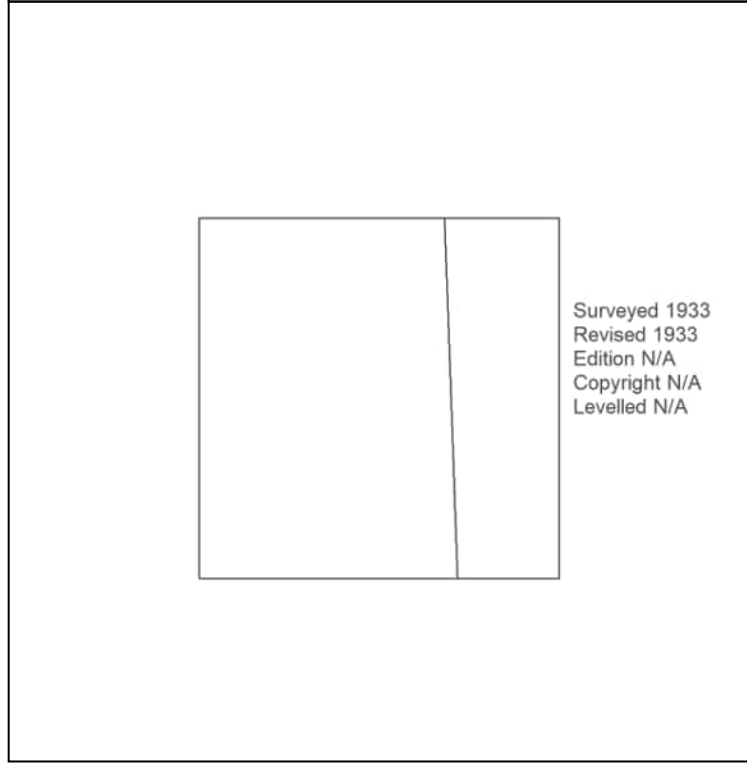
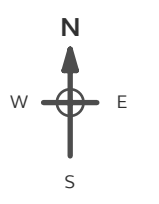



Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_1
Grid Ref: 549739, 179851

Map Name: County Series
Map date: 1933
Scale: 1:2,500
Printed at: 1:2,500



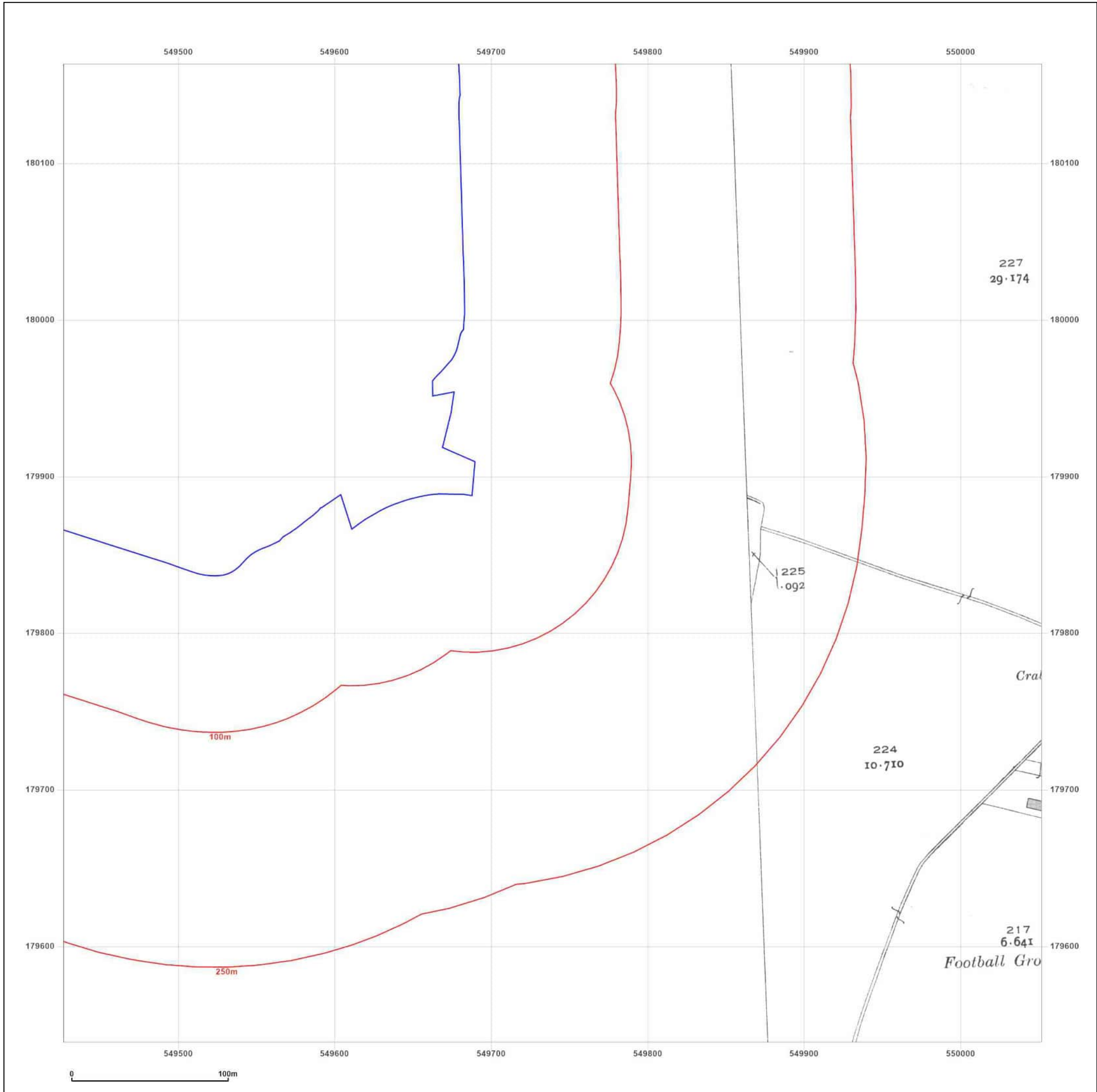
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Map legend available at:
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Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_1
Grid Ref: 549739, 179851

Map Name: County Series

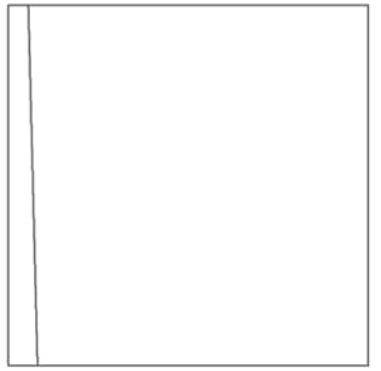
Map date: 1939

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1939
Revised 1939
Edition N/A
Copyright N/A
Levelled N/A

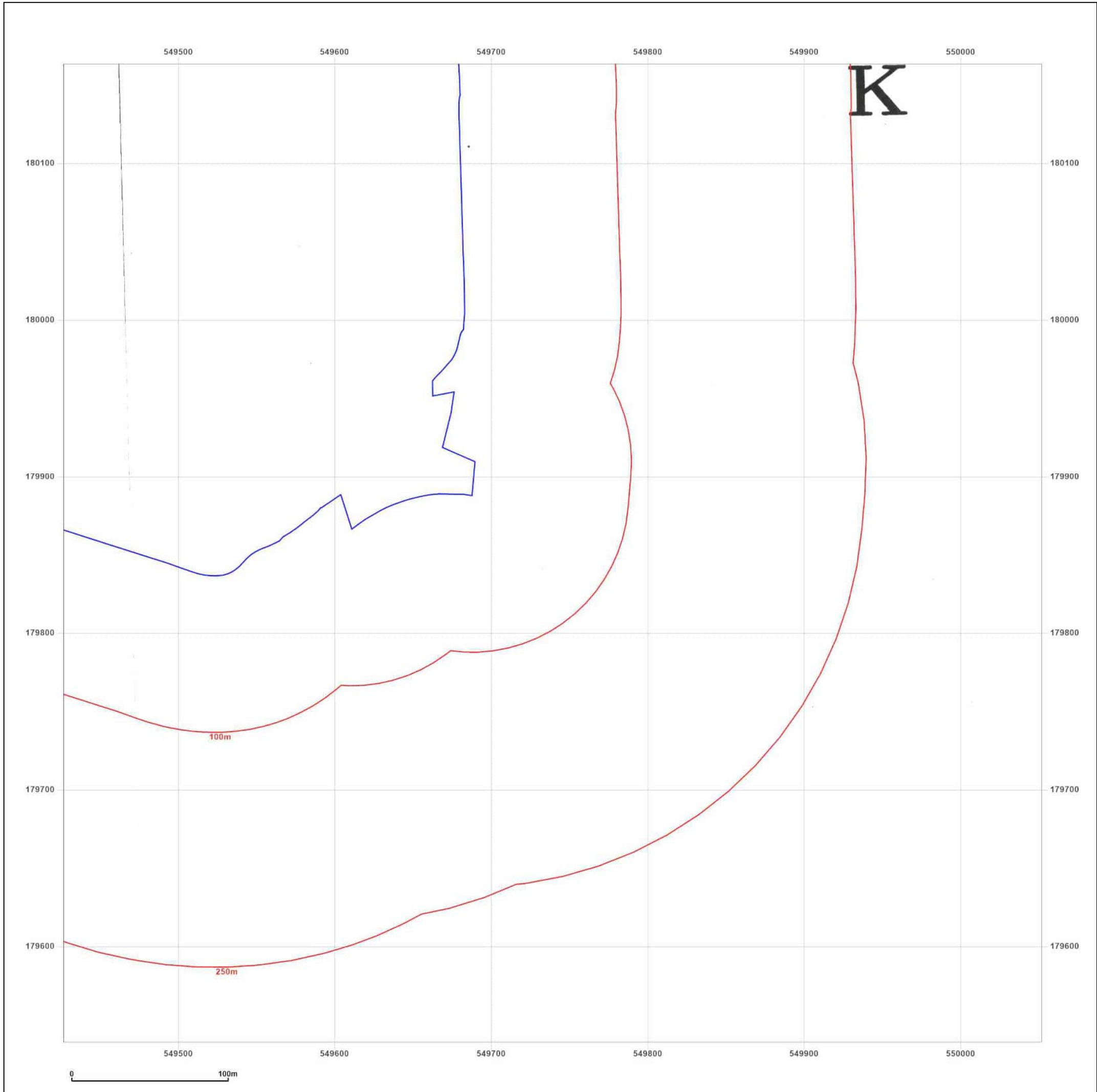



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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_1
Grid Ref: 549739, 179851

Map Name: National Grid

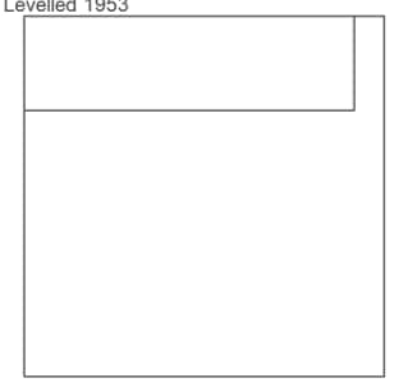
Map date: 1957

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1957
Revised 1957
Edition 1958
Copyright N/A
Levelled 1953

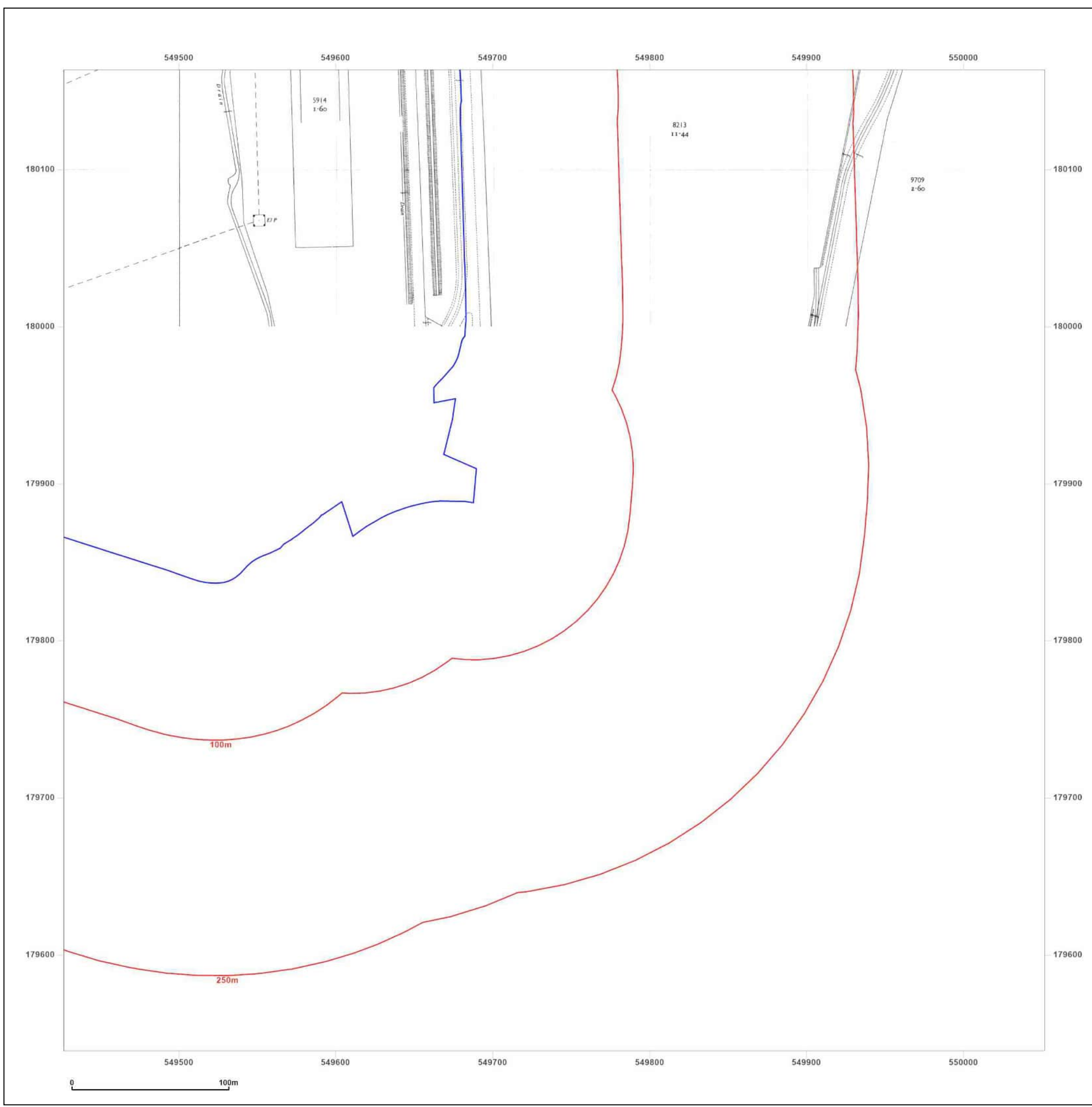


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_1
Grid Ref: 549739, 179851

Map Name: National Grid

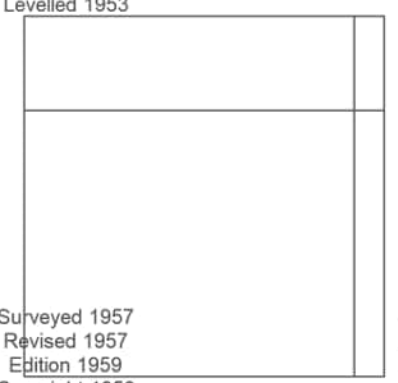
Map date: 1957-1958

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1957
Revised 1957
Edition 1958
Copyright N/A
Levelled 1953



Surveyed 1957
Revised 1957
Edition 1959
Copyright 1959
Levelled 1953

Surveyed 1958
Revised 1958
Edition 1959
Copyright 1959
Levelled 1953

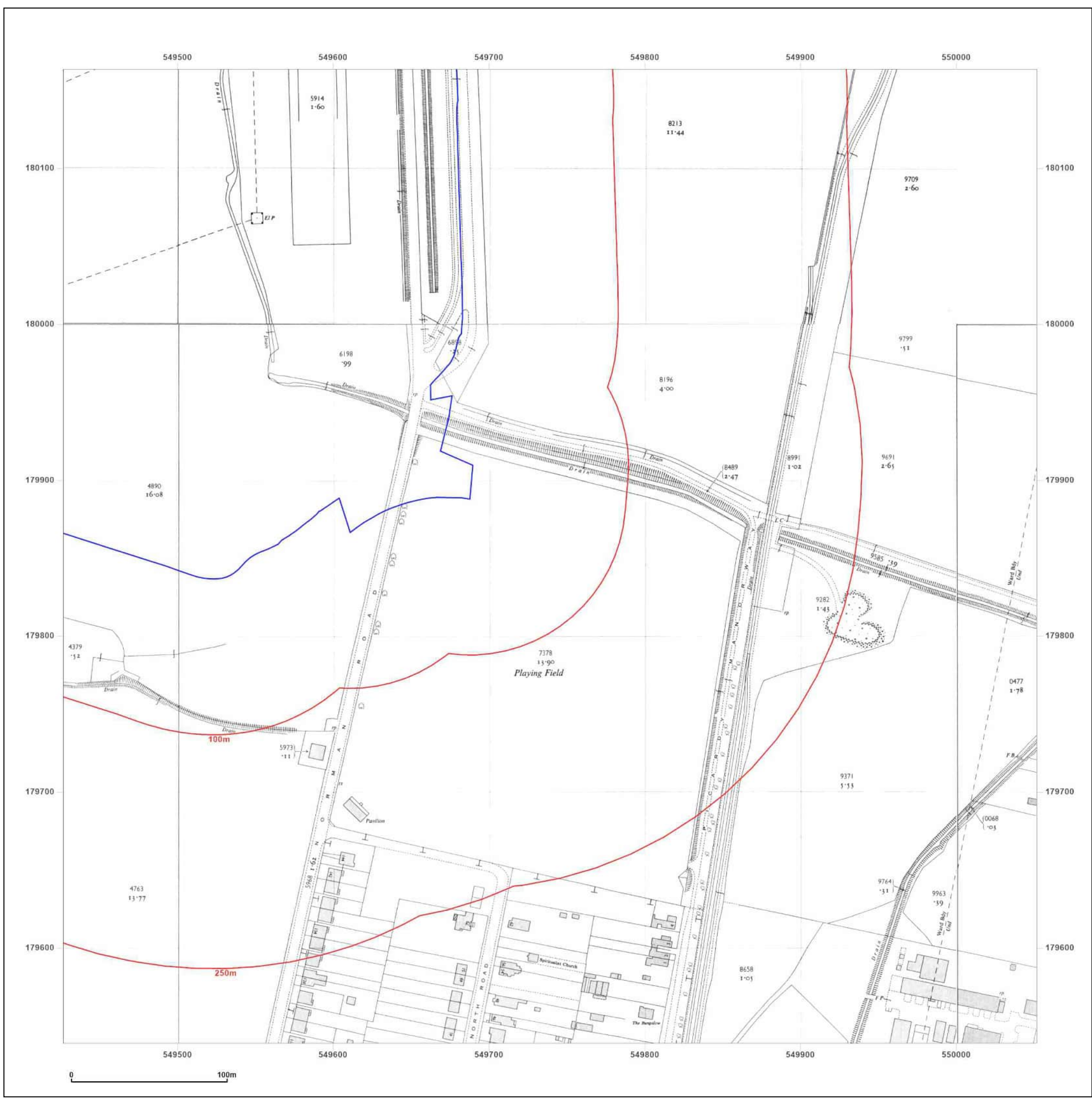


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_1
Grid Ref: 549739, 179851

Map Name: National Grid

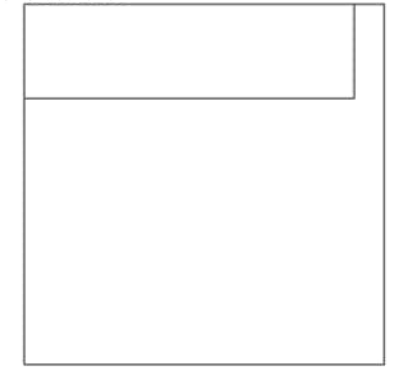
Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised 1968
Edition N/A
Copyright 1970
Levelled 1953

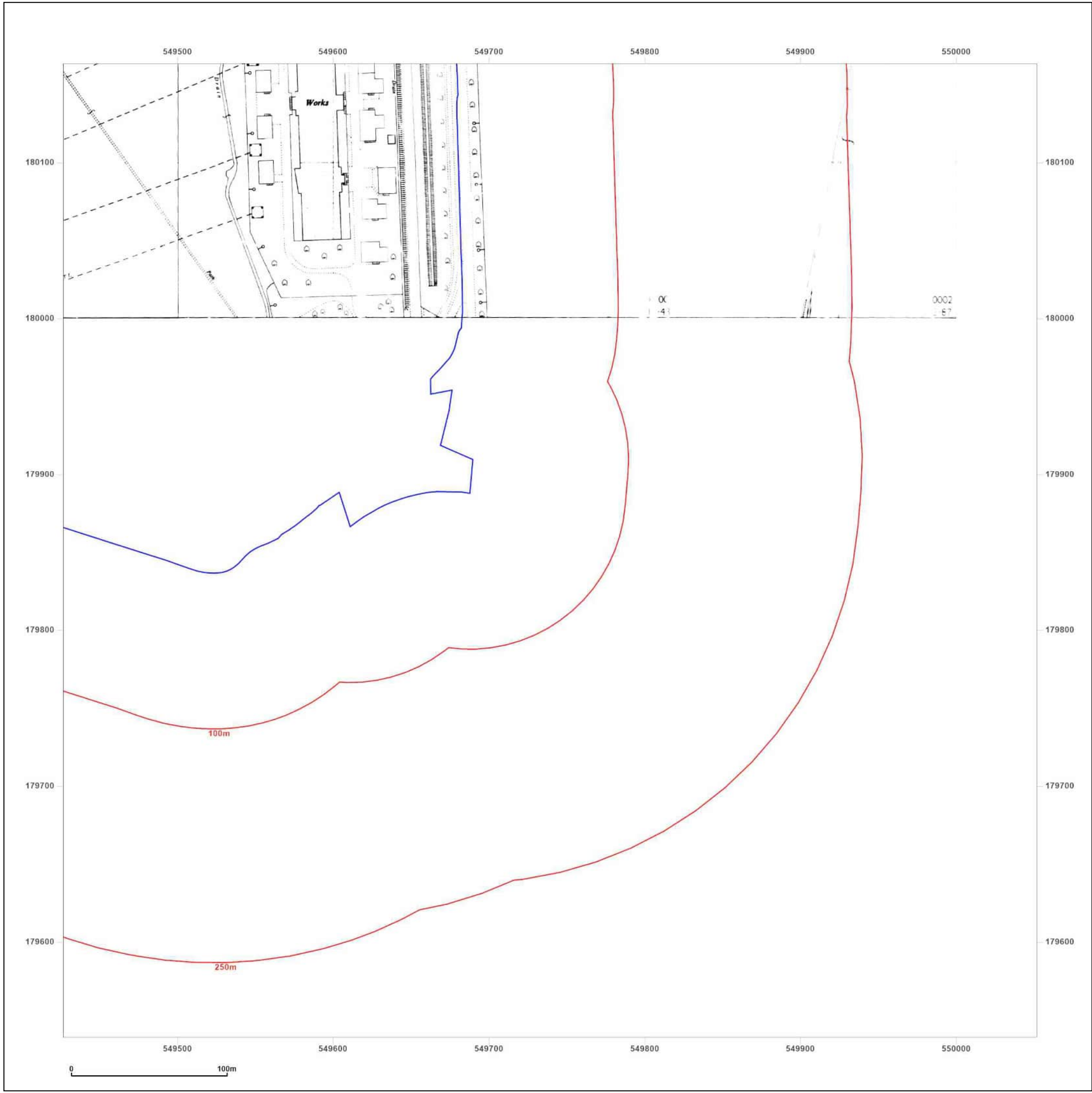


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Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_2
Grid Ref: 549739, 180476

Map Name: County Series

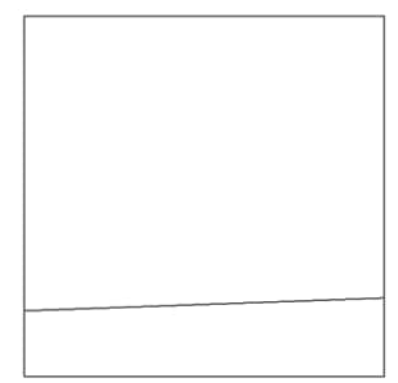
Map date: 1864

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1864
Revised 1864
Edition N/A
Copyright N/A
Levelled N/A

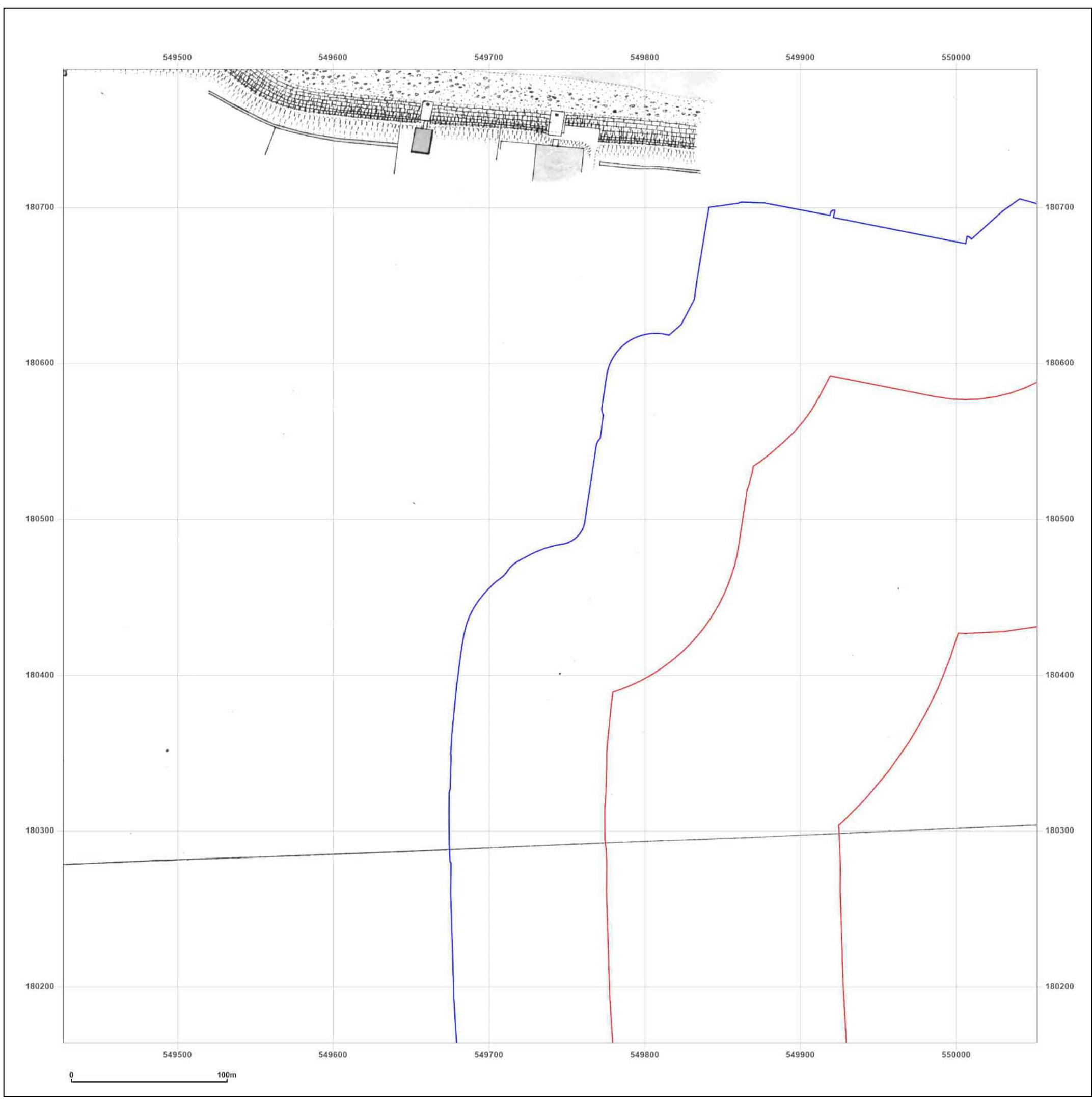


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Site Details:

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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_2
Grid Ref: 549739, 180476

Map Name: County Series

Map date: 1865

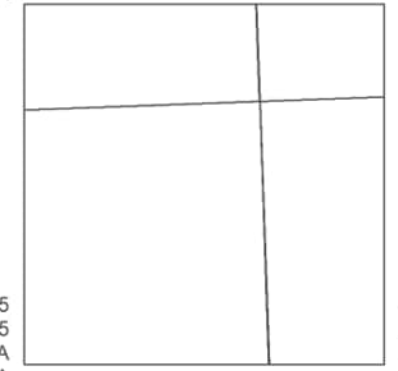
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Printed at: 1:2,500



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Edition N/A
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Levelled N/A

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Revised 1865
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1865
Revised 1865
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1865
Revised 1865
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Copyright N/A
Levelled N/A

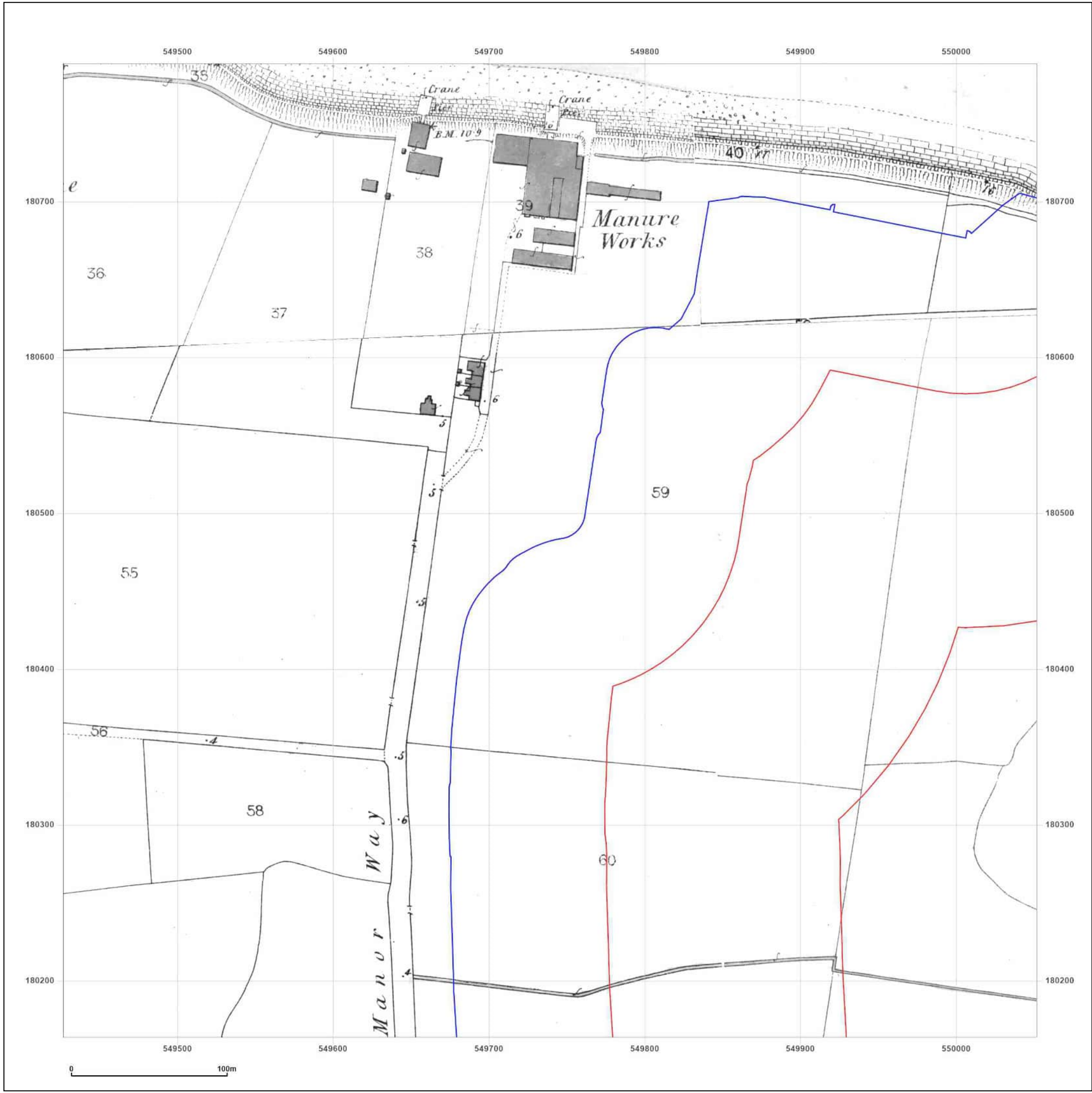


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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_2
Grid Ref: 549739, 180476

Map Name: County Series

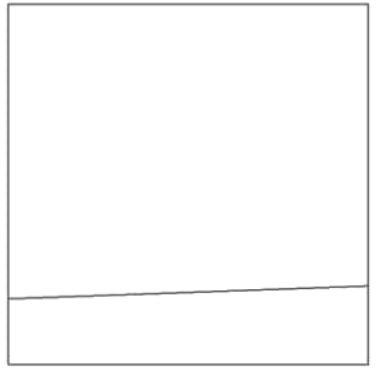
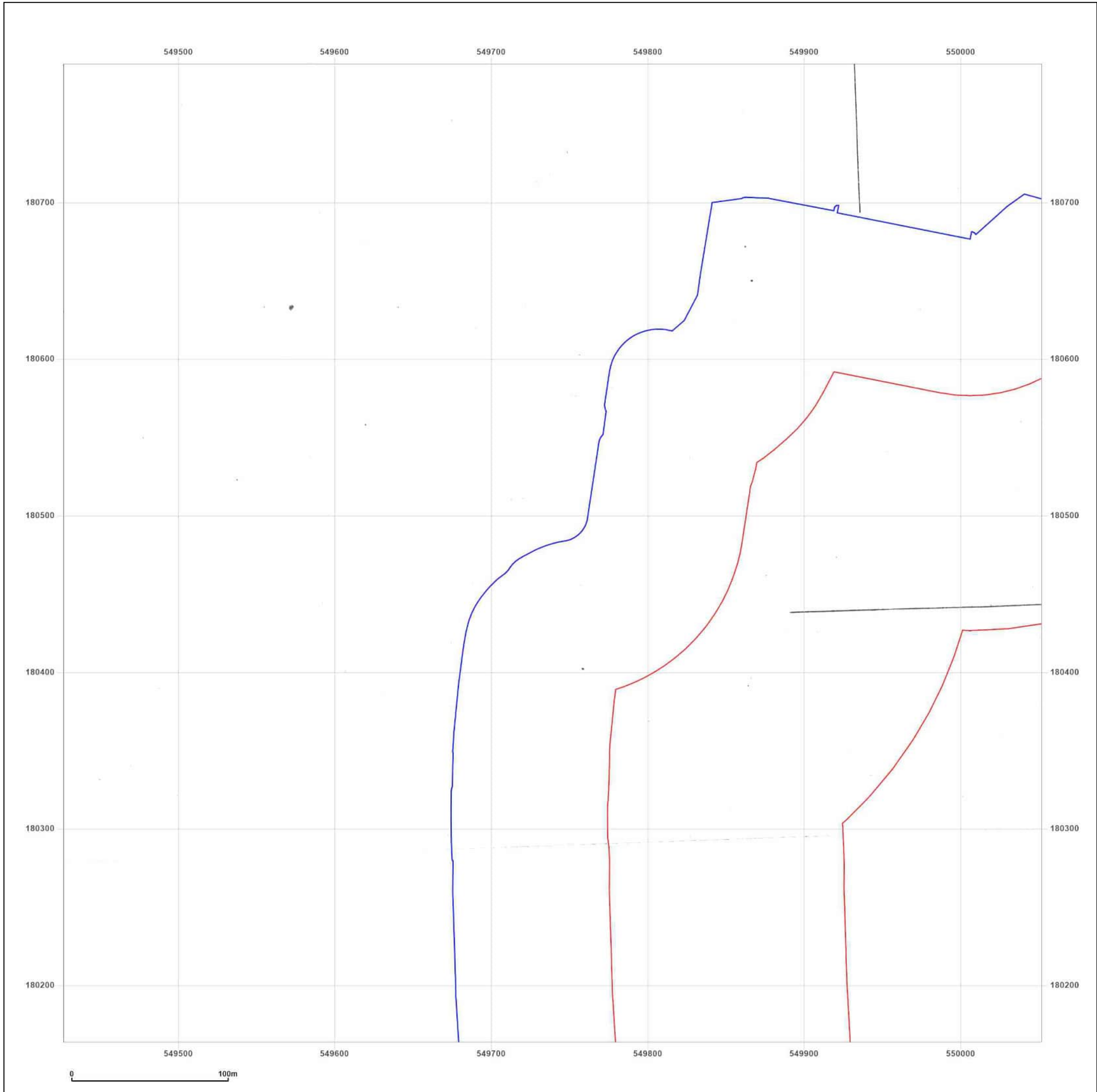
Map date: 1867

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1867
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Edition N/A
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Map legend available at: [REDACTED]

Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_2
Grid Ref: 549739, 180476

Map Name: County Series

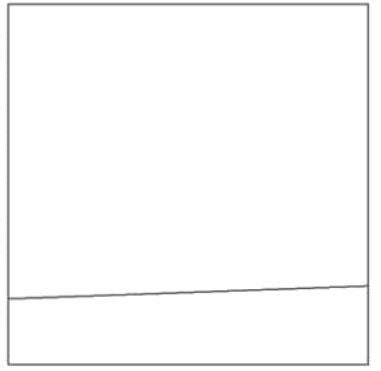
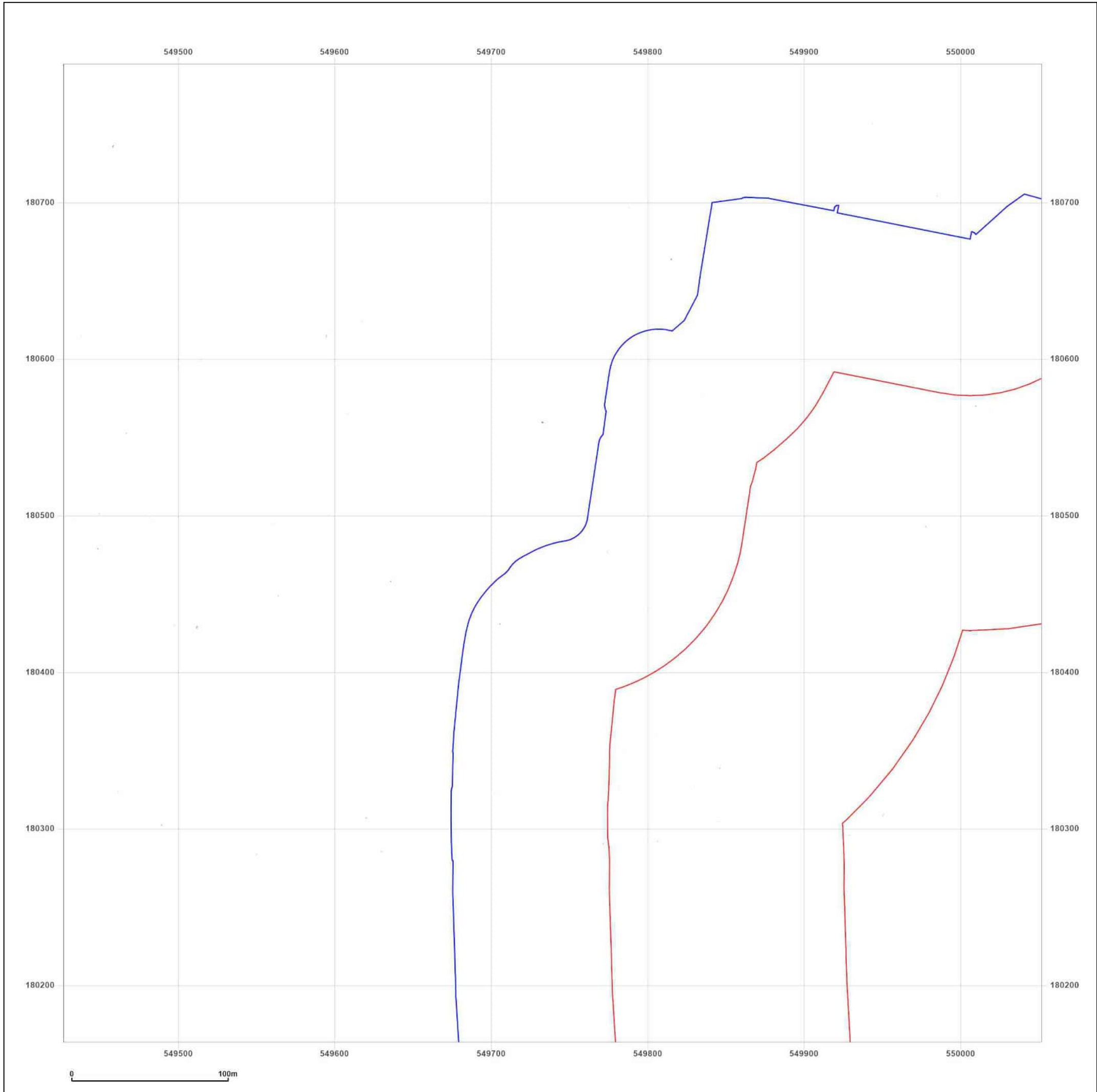
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Scale: 1:2,500

Printed at: 1:2,500



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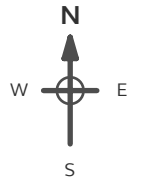
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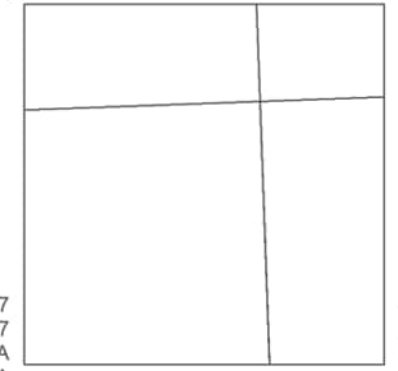
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Report Ref: GS-QCE-212-D95-XTT_LS_2_2
Grid Ref: 549739, 180476

Map Name: County Series
Map date: 1897
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
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Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

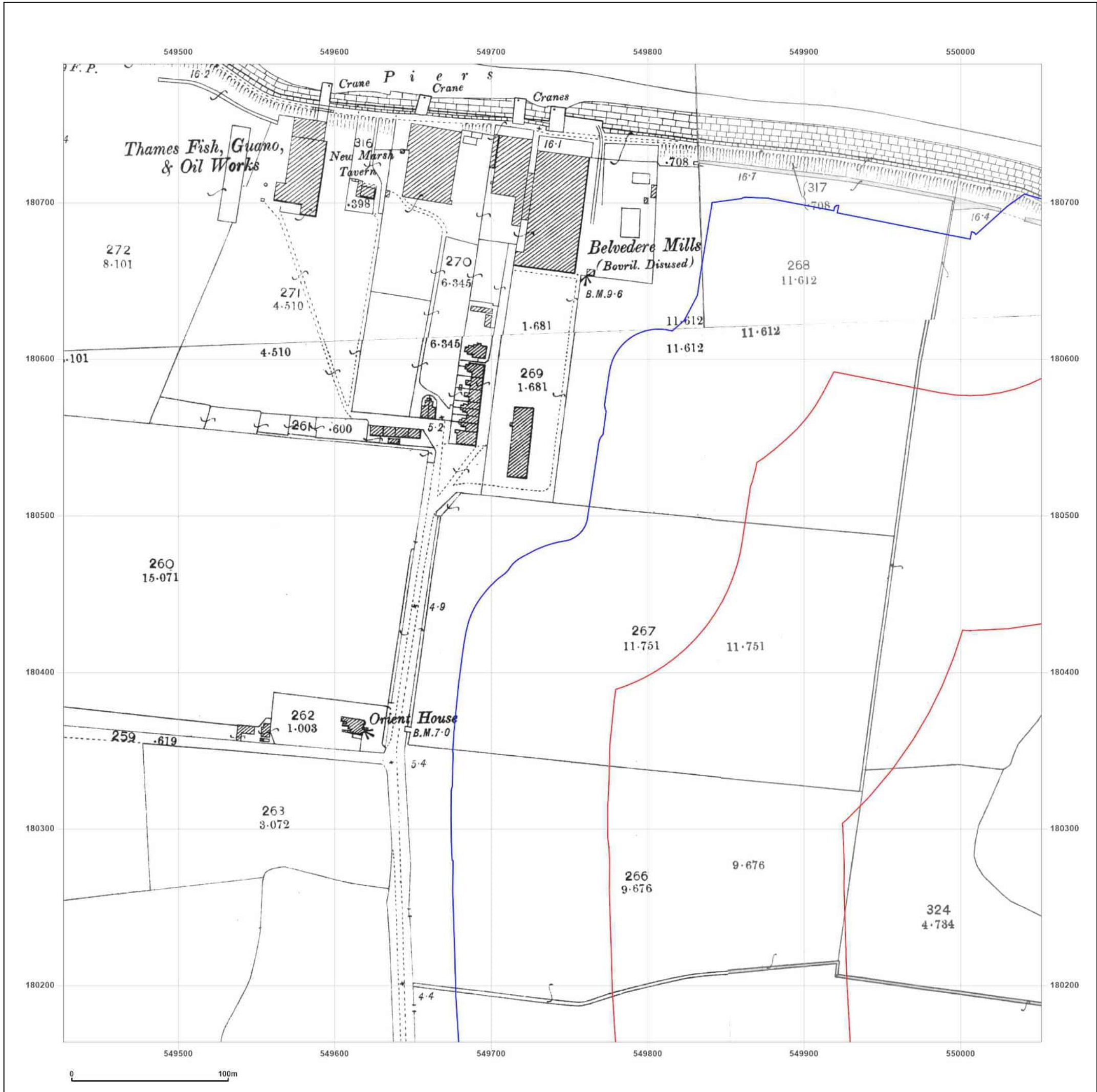


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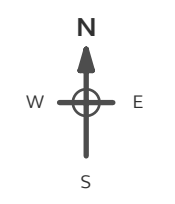


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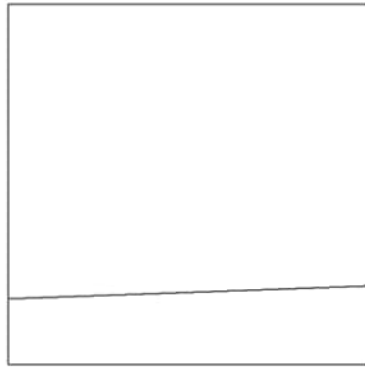
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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
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Grid Ref: 549739, 180476


Map Name: County Series
Map date: 1897
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1897
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Edition N/A
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Site Details:

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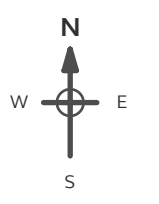
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Report Ref: GS-QCE-212-D95-XTT_LS_2_2
Grid Ref: 549739, 180476

Map Name: County Series

Map date: 1909

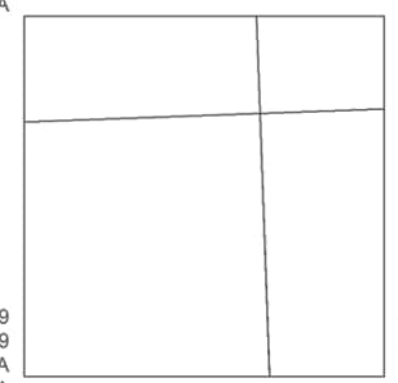
Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A



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Edition N/A
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Report Ref: GS-QCE-212-D95-XTT_LS_2_2
Grid Ref: 549739, 180476

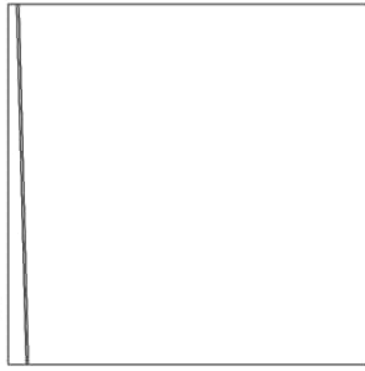
Map Name: County Series

Map date: 1916-1920

Scale: 1:2,500

Printed at: 1:2,500





Surveyed 1916
Revised 1916
Edition N/A
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Surveyed 1920
Revised 1920
Edition N/A
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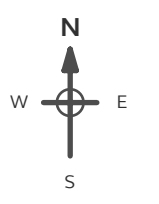
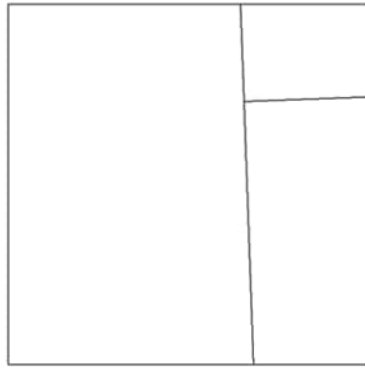
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Report Ref: GS-QCE-212-D95-XTT_LS_2_2
Grid Ref: 549739, 180476

Map Name: County Series

Map date: 1933

Scale: 1:2,500

Printed at: 1:2,500

Surveyed 1933
Revised 1933
Edition N/A
Copyright N/A
Levelled N/A

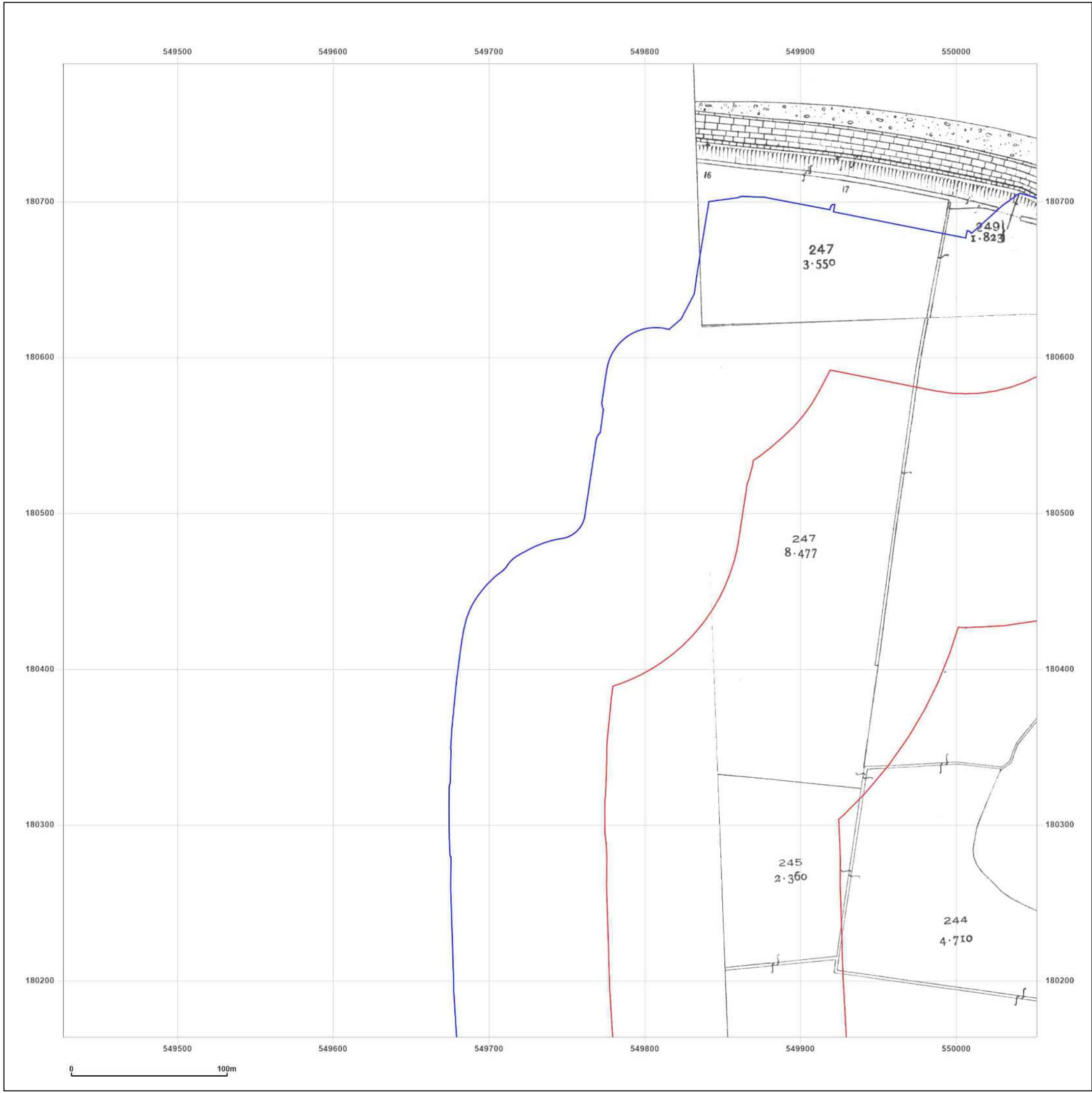
Surveyed 1933
Revised 1933
Edition N/A
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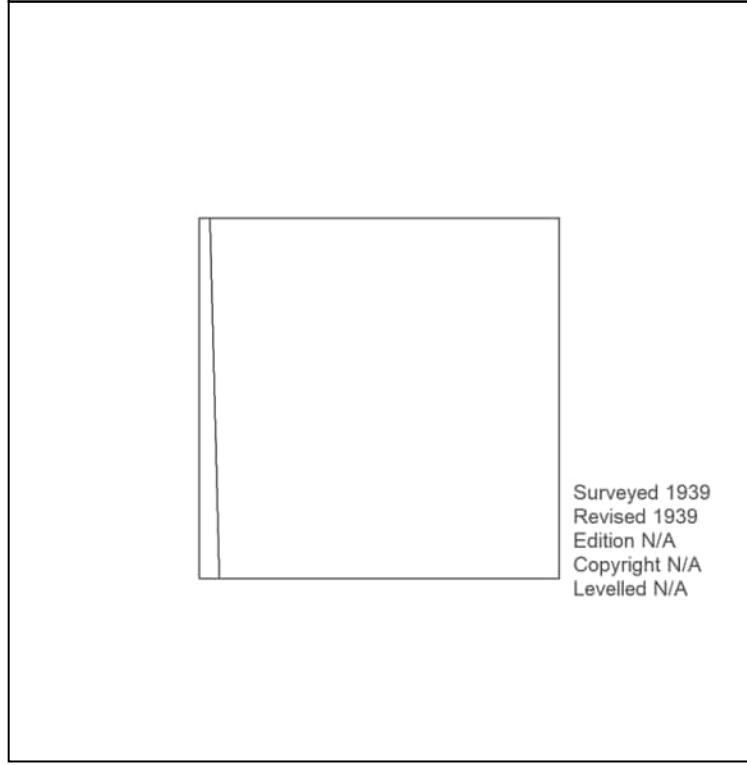
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Report Ref: GS-QCE-212-D95-XTT_LS_2_2
Grid Ref: 549739, 180476

Map Name: County Series

Map date: 1939

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1939
Revised 1939
Edition N/A
Copyright N/A
Levelled N/A

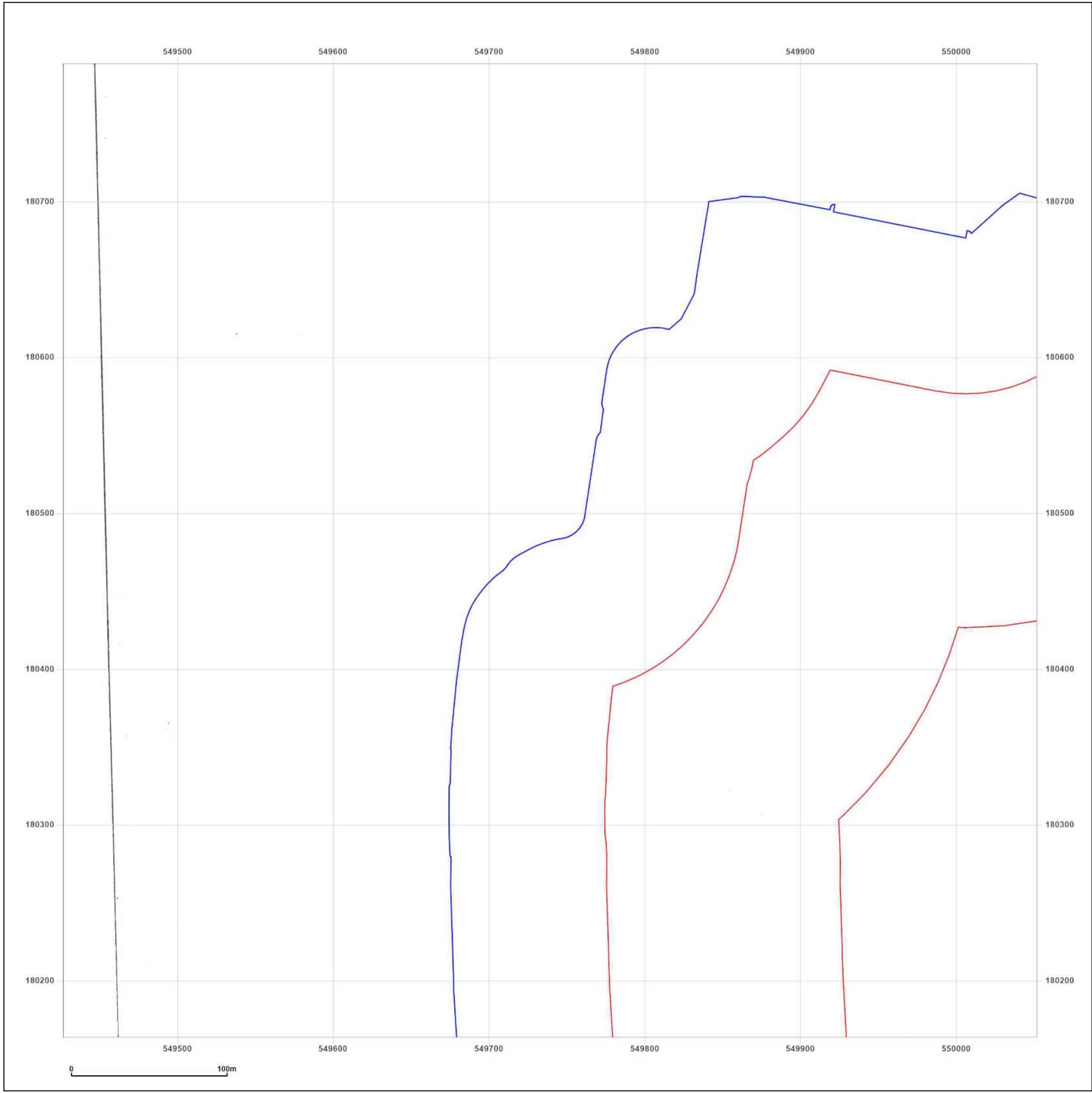


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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_2
Grid Ref: 549739, 180476

Map Name: National Grid

Map date: 1957

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1957
Revised 1957
Edition 1958
Copyright N/A
Levelled 1953



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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_2
Grid Ref: 549739, 180476

Map Name: National Grid

Map date: 1957

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1957
Revised 1957
Edition 1958
Copyright N/A
Levelled 1953



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Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_2
Grid Ref: 549739, 180476

Map Name: National Grid

Map date: 1966-1970

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised 1968
Edition N/A
Copyright 1970
Levelled 1953

Surveyed 1963
Revised N/A
Edition 1966
Copyright N/A
Levelled N/A



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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_3
Grid Ref: 549739, 181101


Map Name: County Series

Map date: 1864

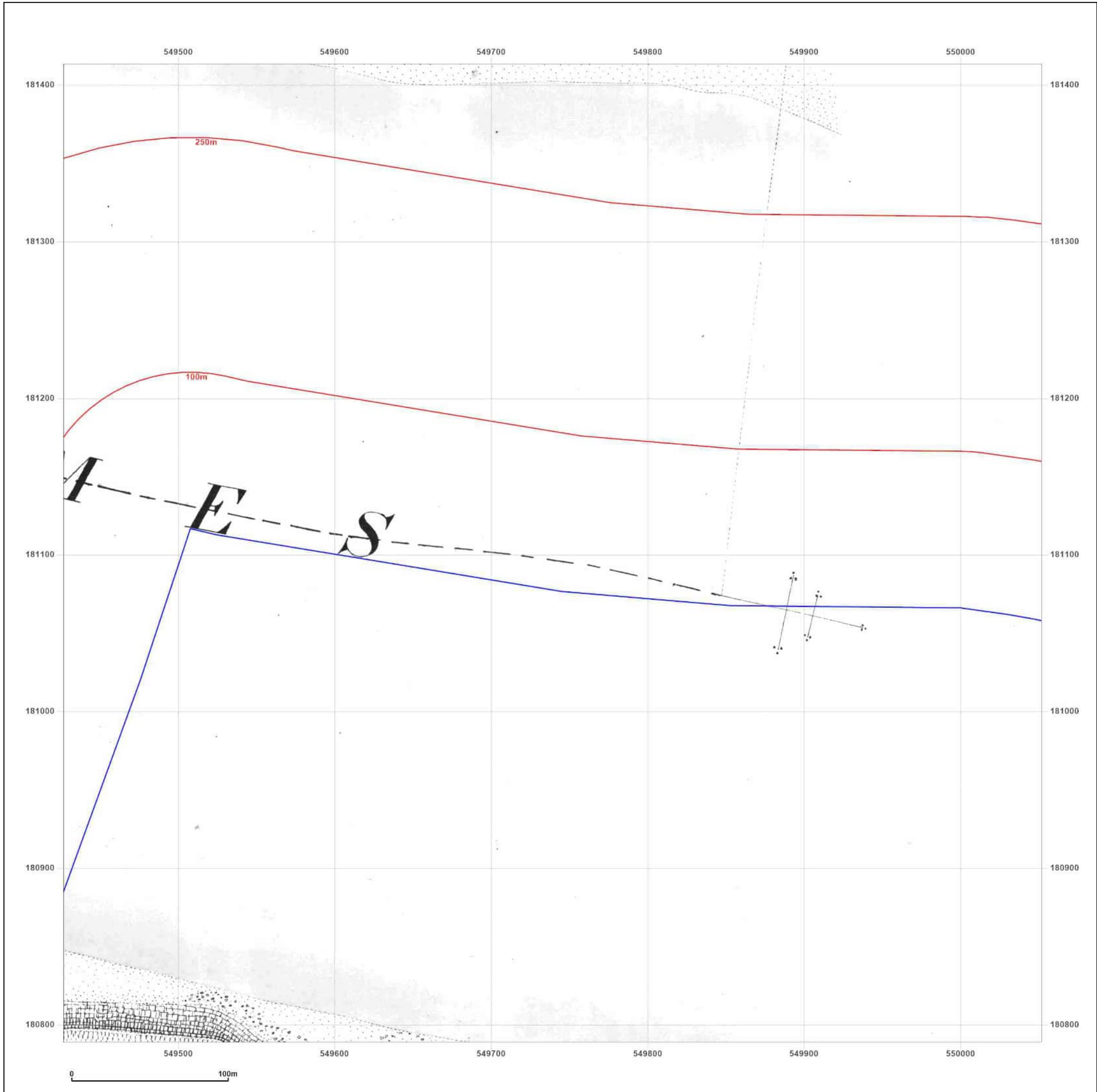
Scale: 1:2,500

Printed at: 1:2,500





Surveyed 1864
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Site Details:

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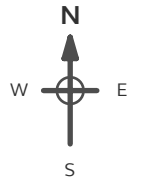
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Report Ref: GS-QCE-212-D95-XTT_LS_2_3
Grid Ref: 549739, 181101

Map Name: County Series

Map date: 1865

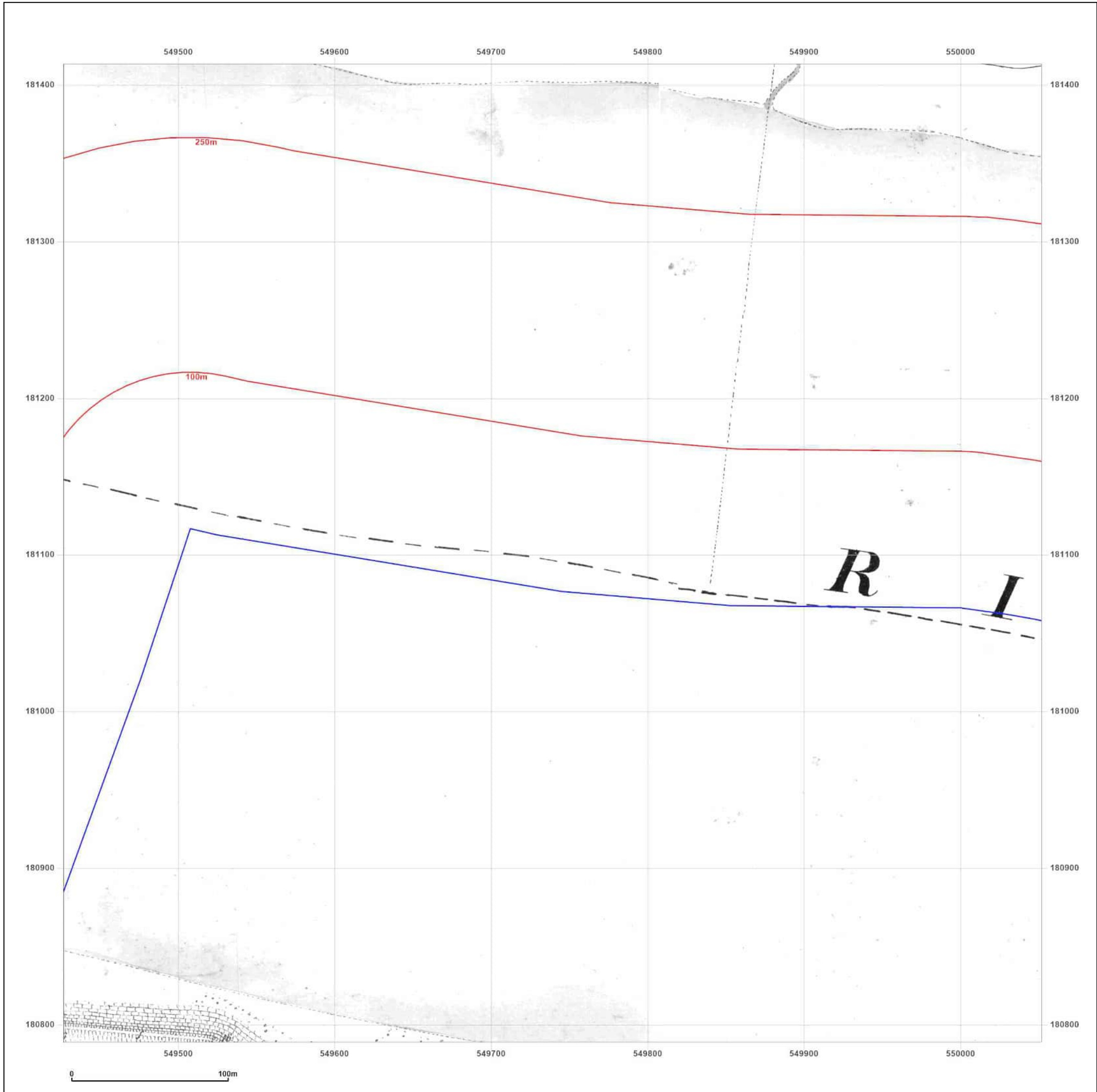
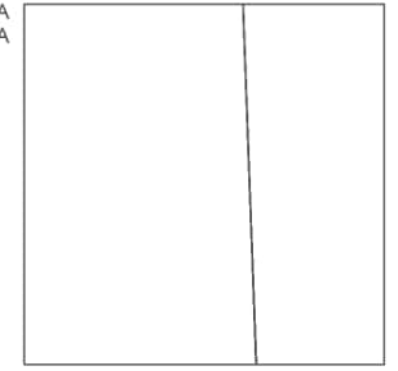
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Printed at: 1:2,500



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Revised 1865
Edition N/A
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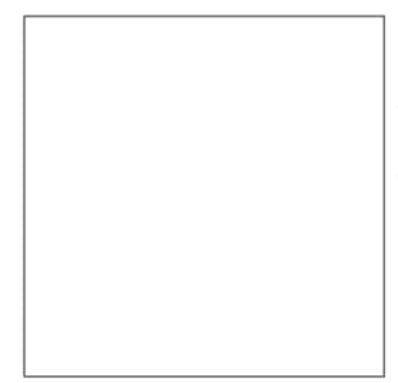
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Report Ref: GS-QCE-212-D95-XTT_LS_2_3
Grid Ref: 549739, 181101

Map Name: County Series

Map date: 1867

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A

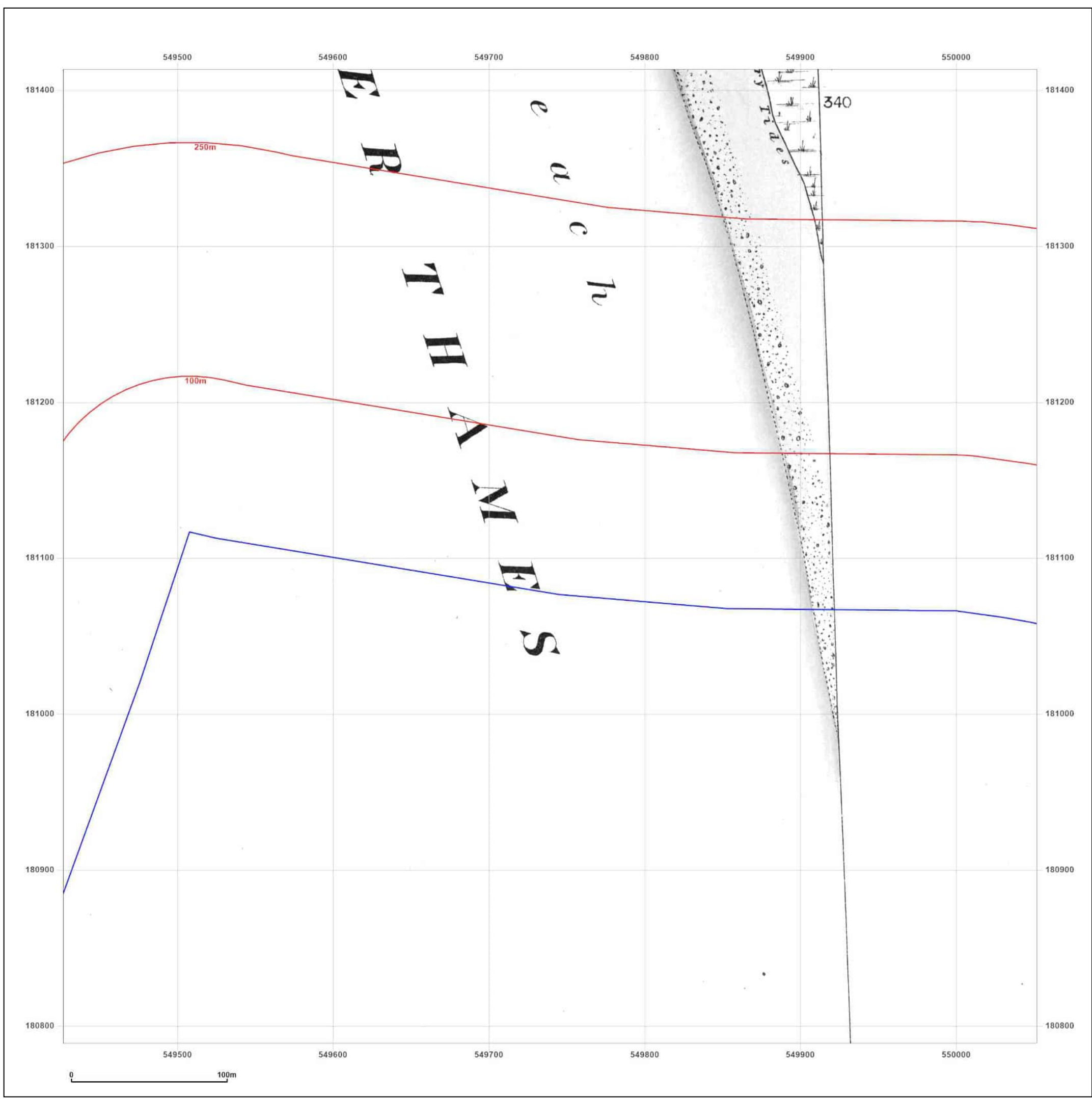


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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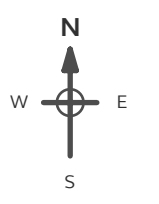
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Map Name: County Series

Map date: 1867

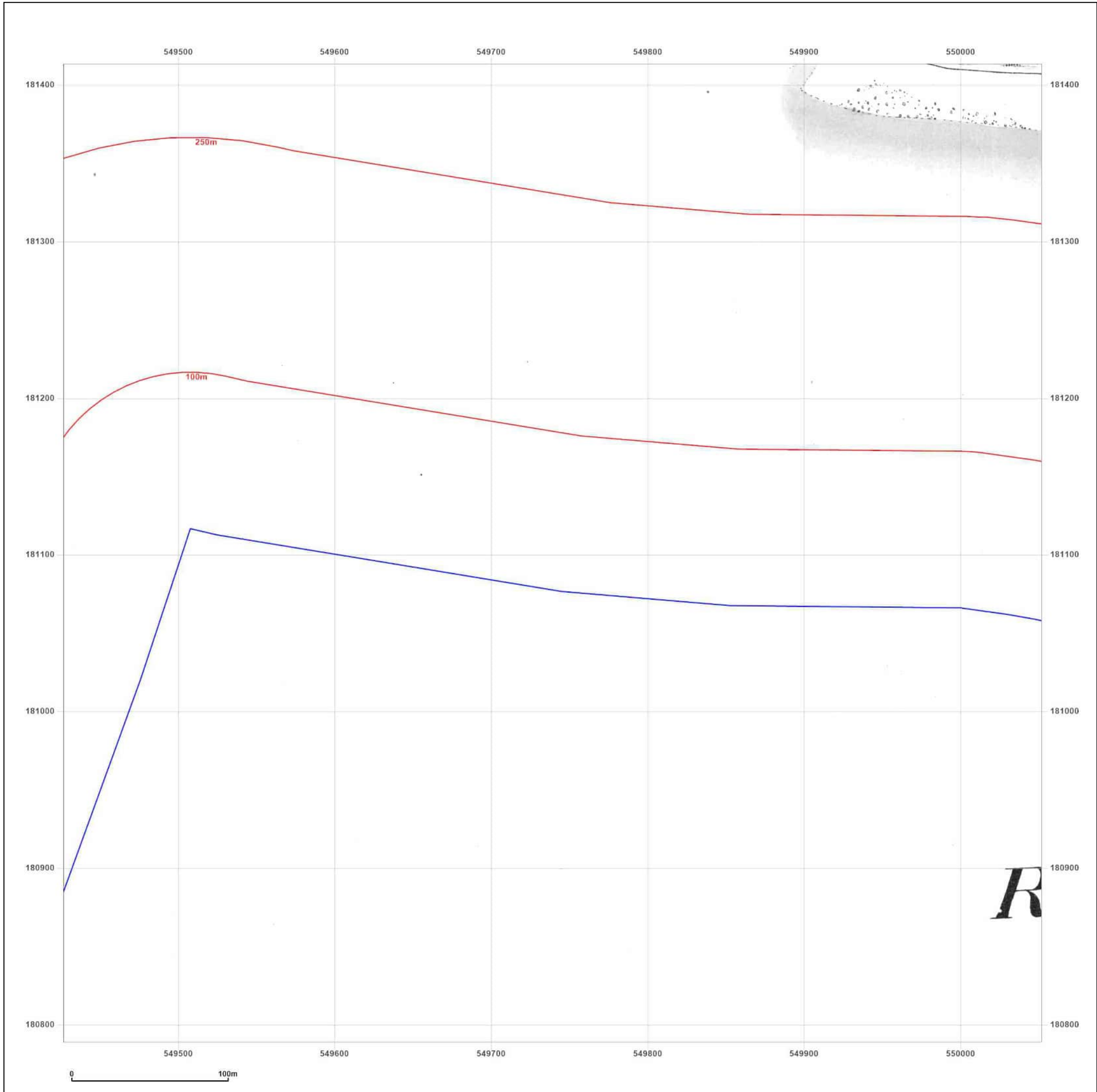
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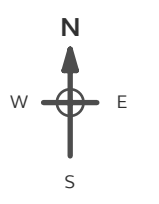
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Grid Ref: 549739, 181101

Map Name: County Series

Map date: 1897

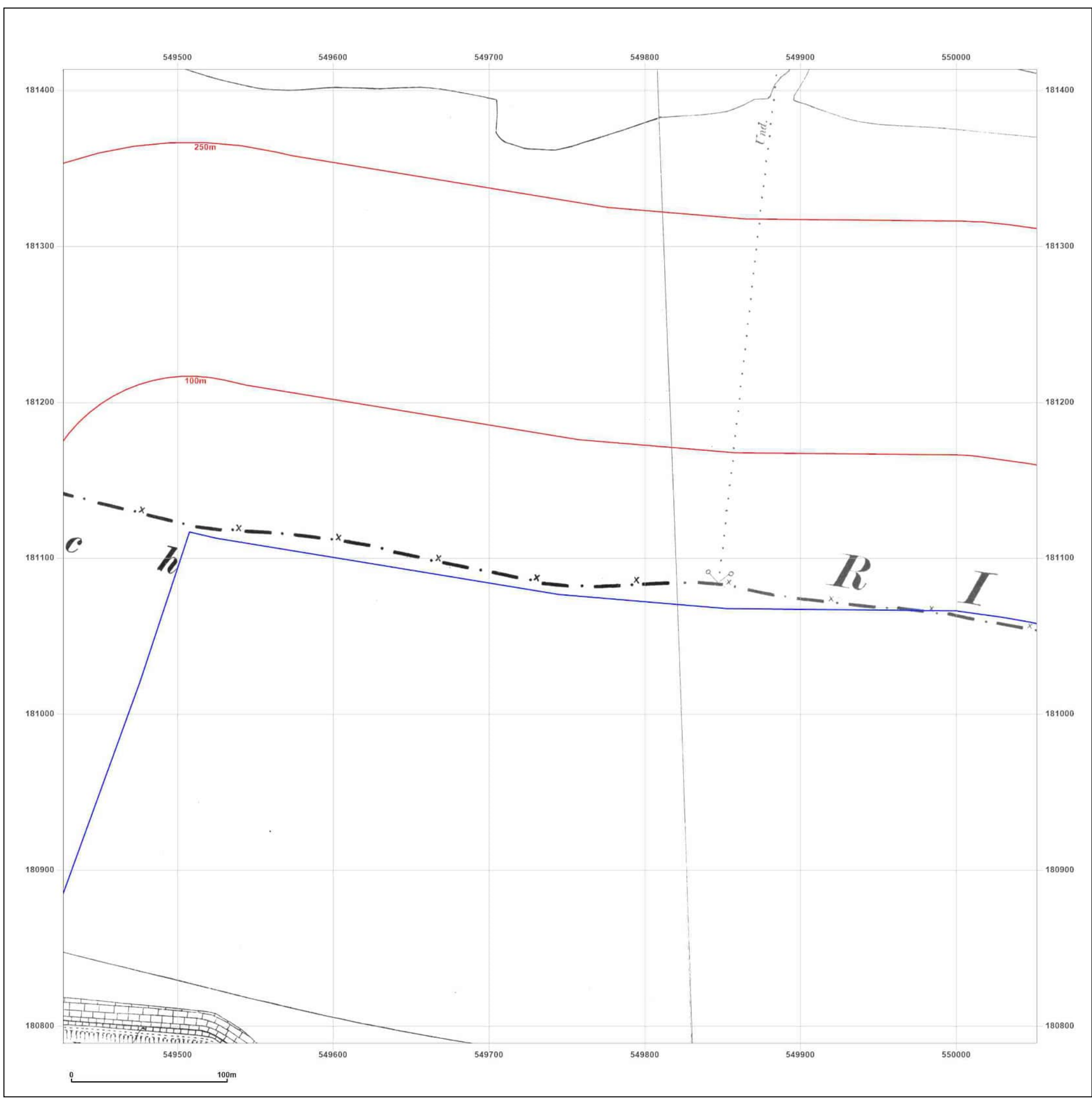
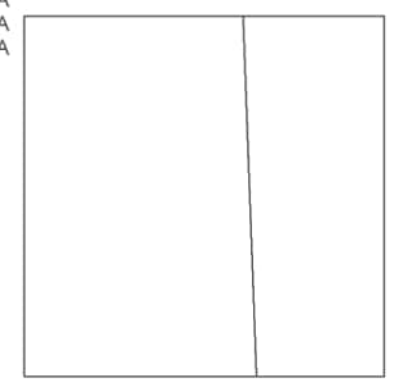
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Revised 1897
Edition N/A
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Levelled N/A

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Edition N/A
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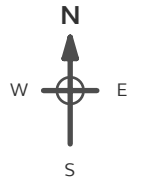
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Report Ref: GS-QCE-212-D95-XTT_LS_2_3
Grid Ref: 549739, 181101

Map Name: County Series
Map date: 1897
Scale: 1:2,500
Printed at: 1:2,500



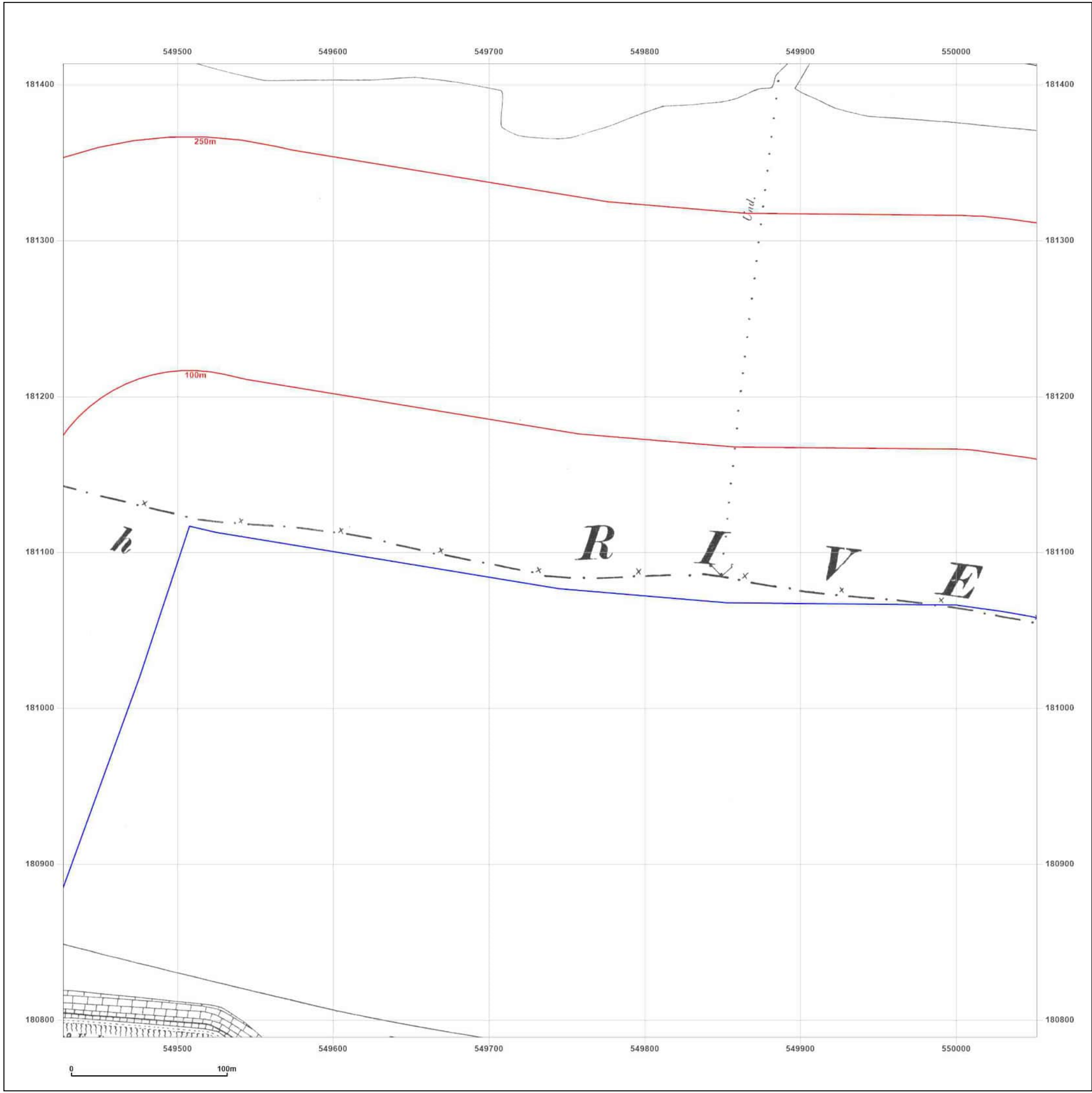
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 Revised 1897
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Map legend available at: [REDACTED]



Site Details:

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620791927

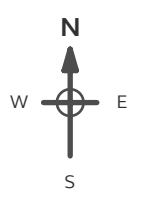
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Report Ref: GS-QCE-212-D95-XTT_LS_2_3
Grid Ref: 549739, 181101

Map Name: County Series

Map date: 1909

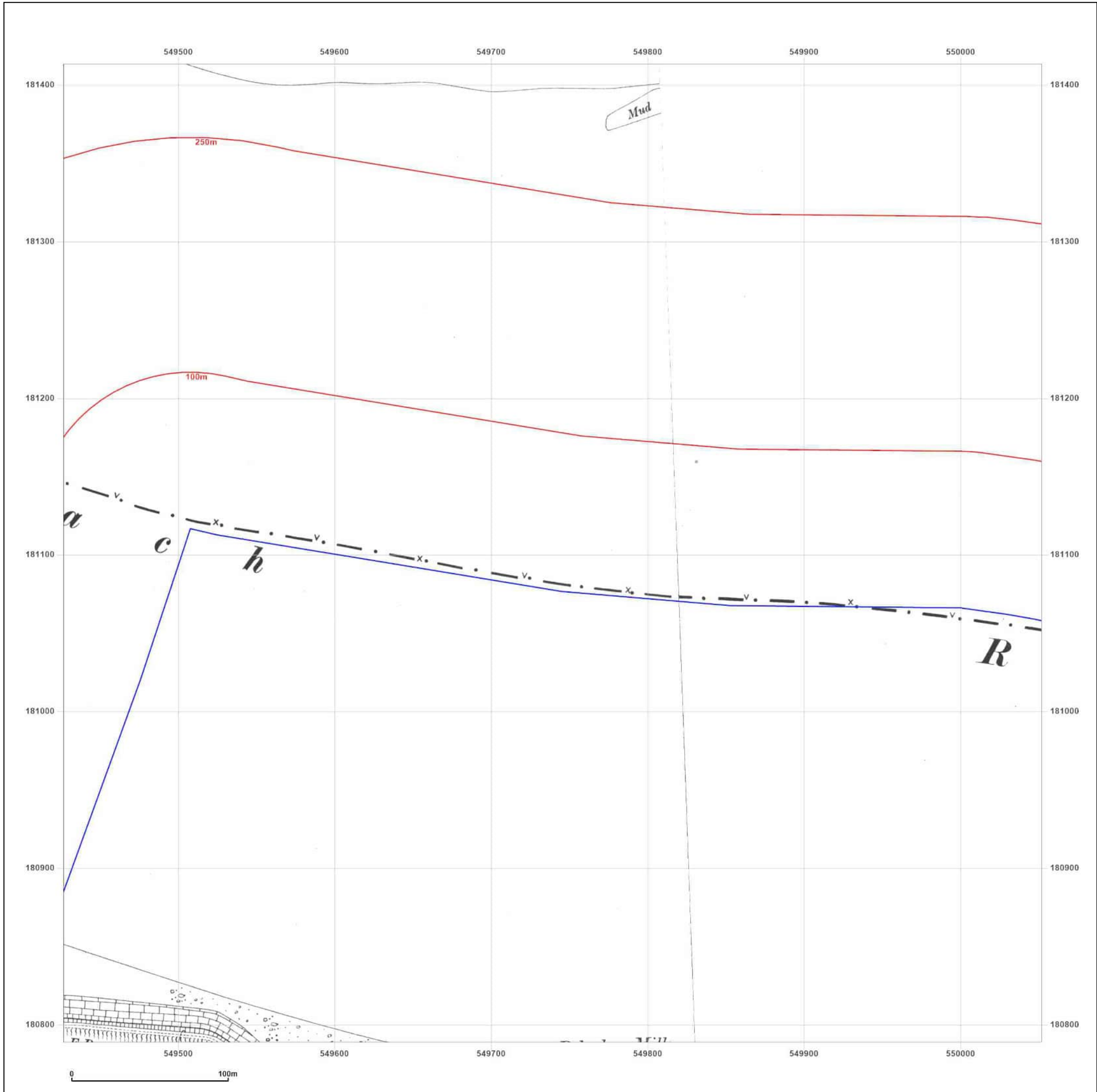
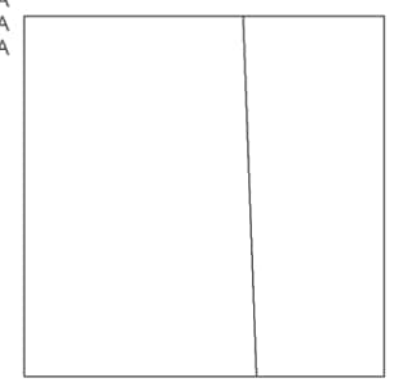
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Printed at: 1:2,500



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Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
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Production date: 26 October 2023

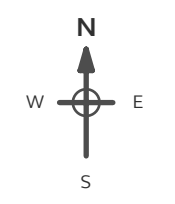
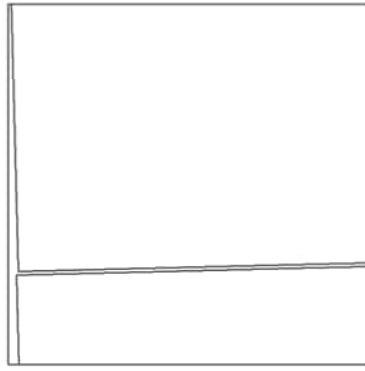
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Site Details:

549656.6233563919,180548.34
620791927

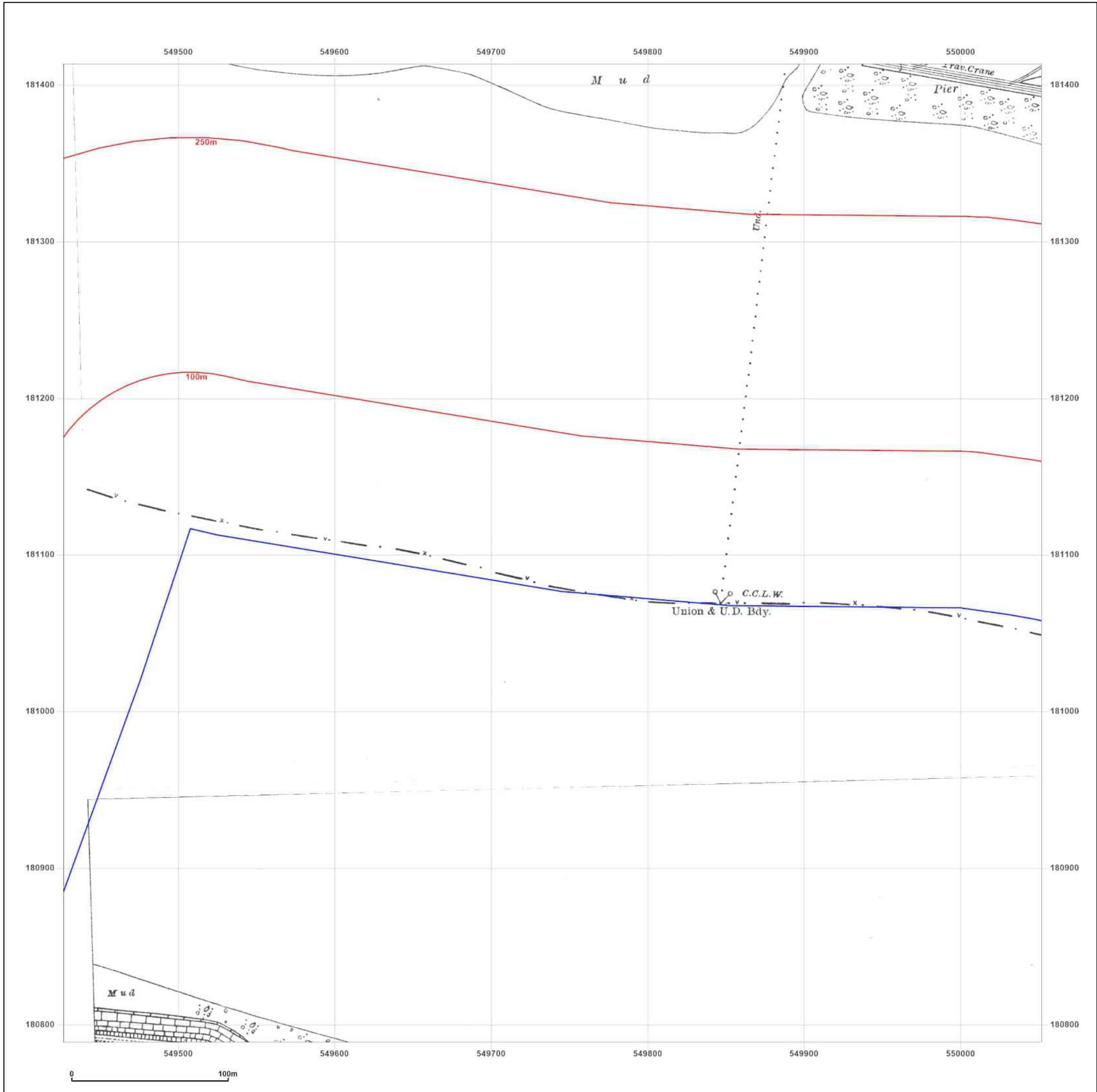
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Report Ref: GS-QCE-212-D95-XTT_LS_2_3
Grid Ref: 549739, 181101


Map Name: County Series
Map date: 1920
Scale: 1:2,500
Printed at: 1:2,500

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A



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Map legend available at: 

Site Details:

549656.6233563919,180548.34
620791927

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Report Ref: GS-QCE-212-D95-XTT_LS_2_3
Grid Ref: 549739, 181101

Map Name: County Series

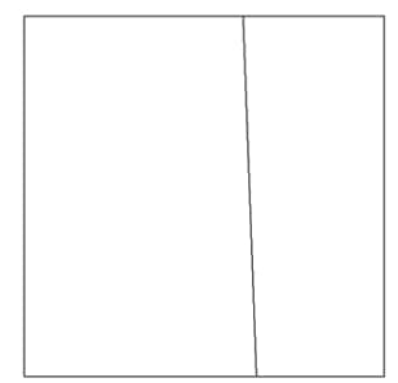
Map date: 1933

Scale: 1:2,500

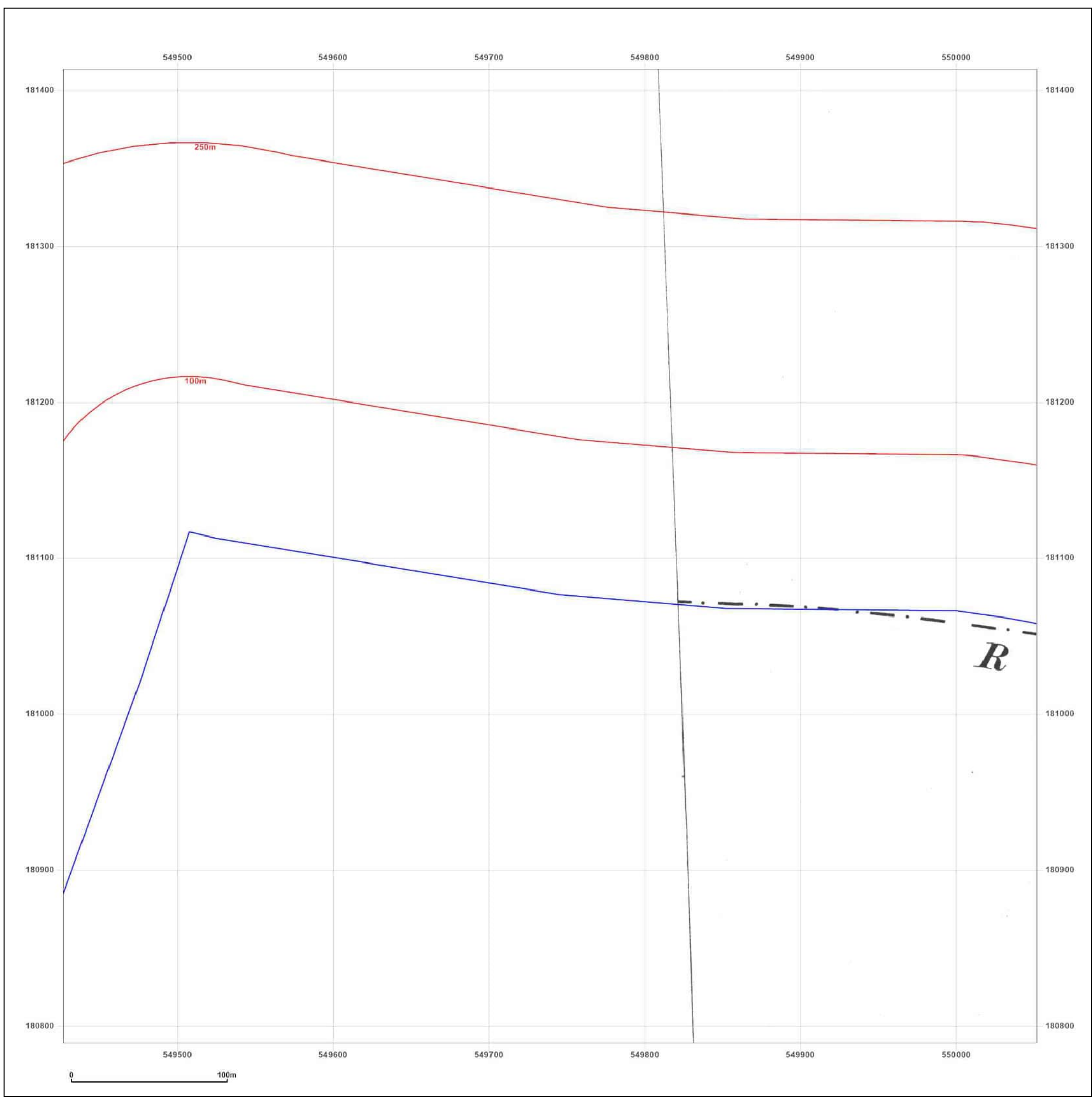
Printed at: 1:2,500



Surveyed 1933
Revised 1933
Edition N/A
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Production date: 26 October 2023

Map legend available at: [REDACTED]

Site Details:

549656.6233563919,180548.34
620791927

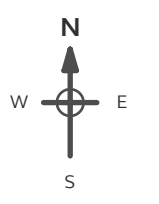
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Grid Ref: 549739, 181101

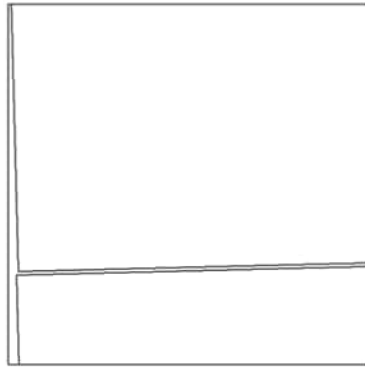
Map Name: County Series

Map date: 1939

Scale: 1:2,500

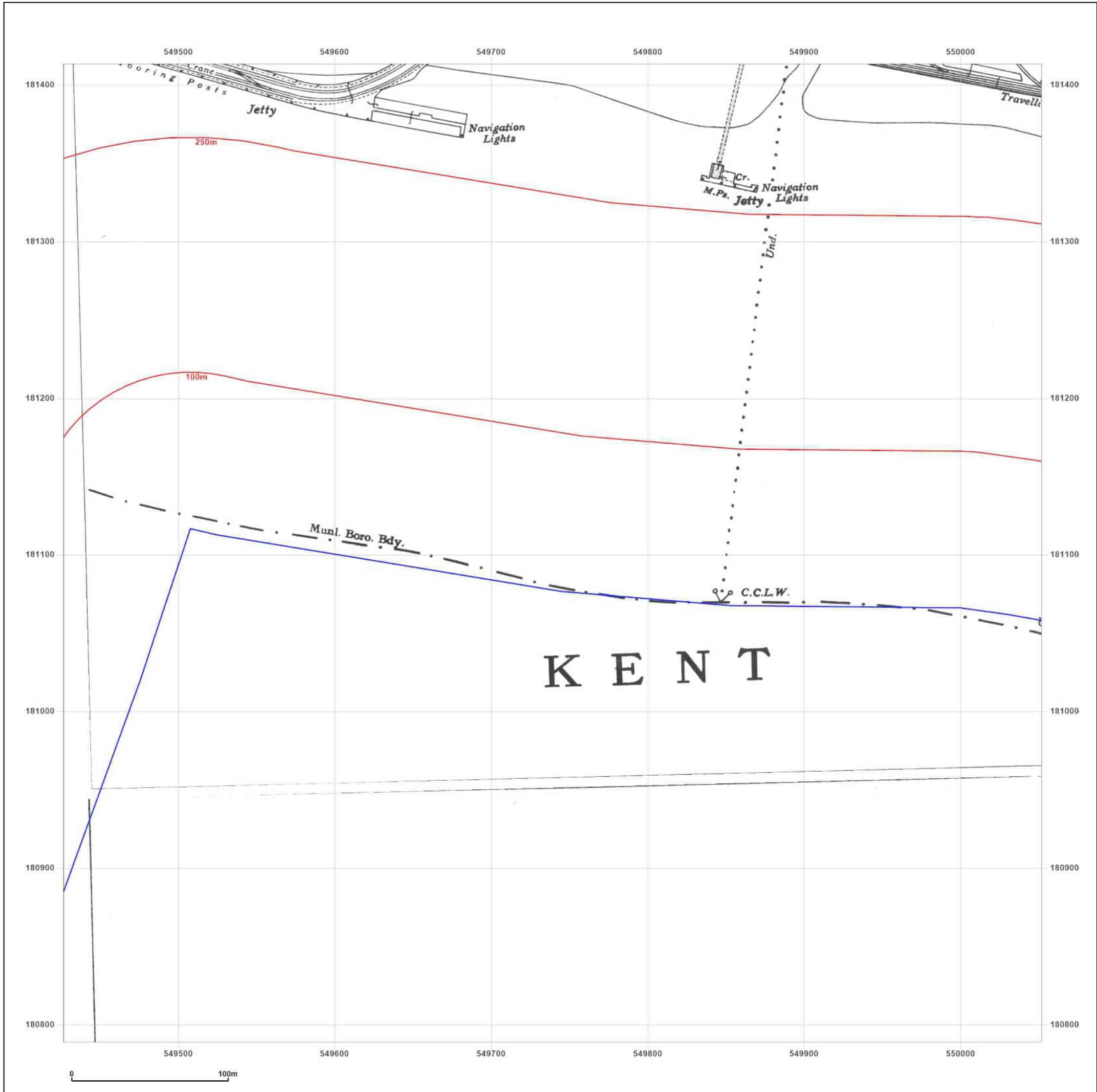
Printed at: 1:2,500





Surveyed 1939
Revised 1939
Edition N/A
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Levelled N/A

Surveyed 1939
Revised 1939
Edition N/A
Copyright N/A
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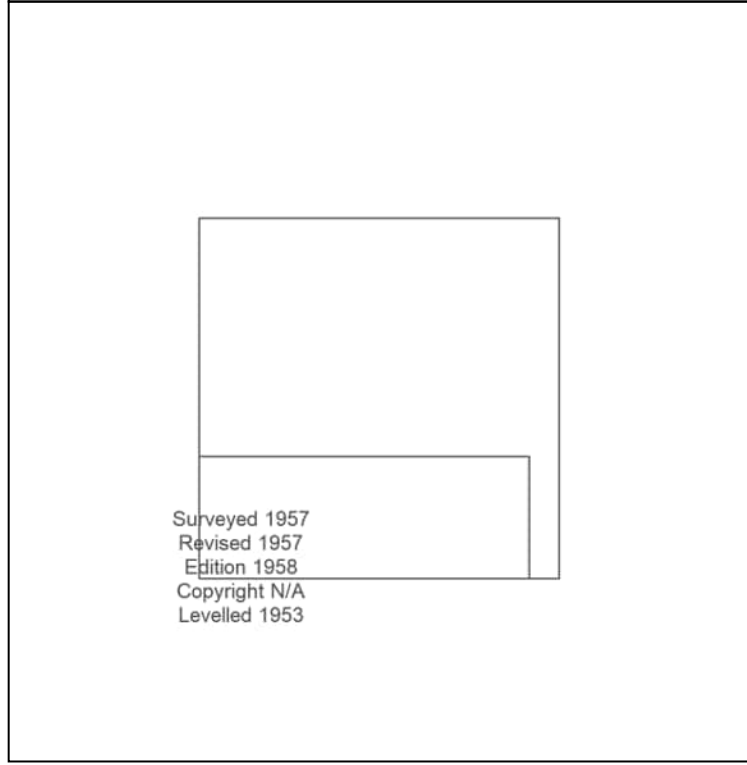
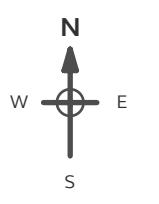
Production date: 26 October 2023


Map legend available at: [REDACTED]

Site Details:
 549656.6233563919,180548.34
 620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_3
Grid Ref: 549739, 181101

Map Name: National Grid
Map date: 1957
Scale: 1:2,500
Printed at: 1:2,500

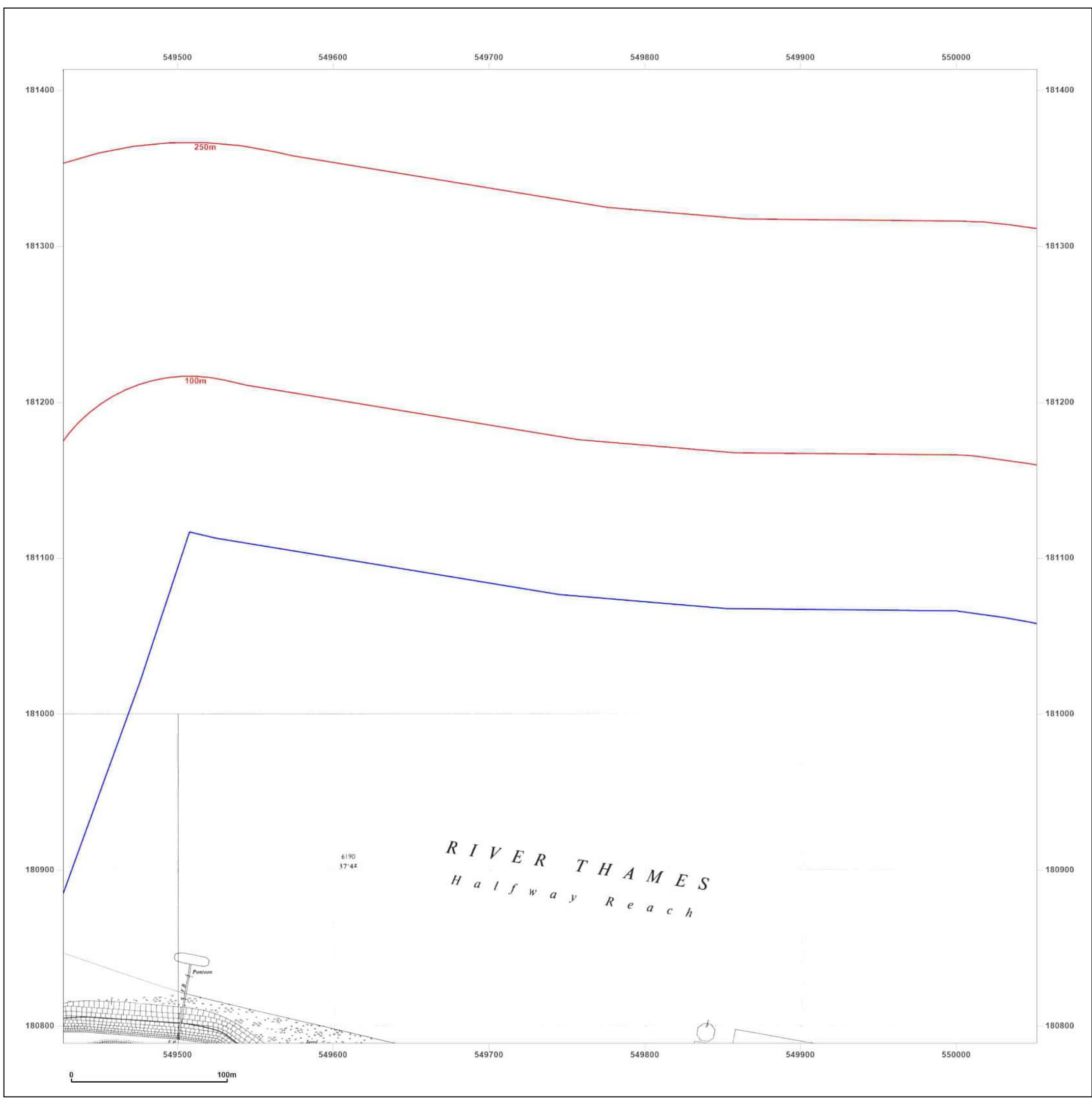


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_3
Grid Ref: 549739, 181101

Map Name: National Grid

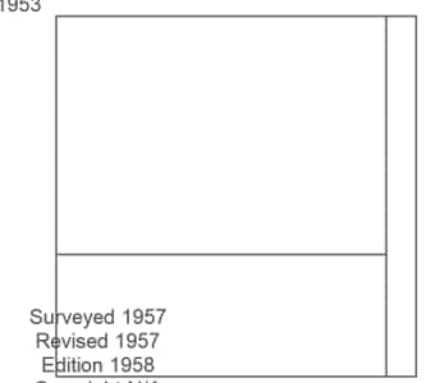
Map date: 1957-1962

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1962
Revised 1962
Edition 1966
Copyright 1966
Levelled 1953



Surveyed 1957
Revised 1957
Edition 1958
Copyright N/A
Levelled 1953

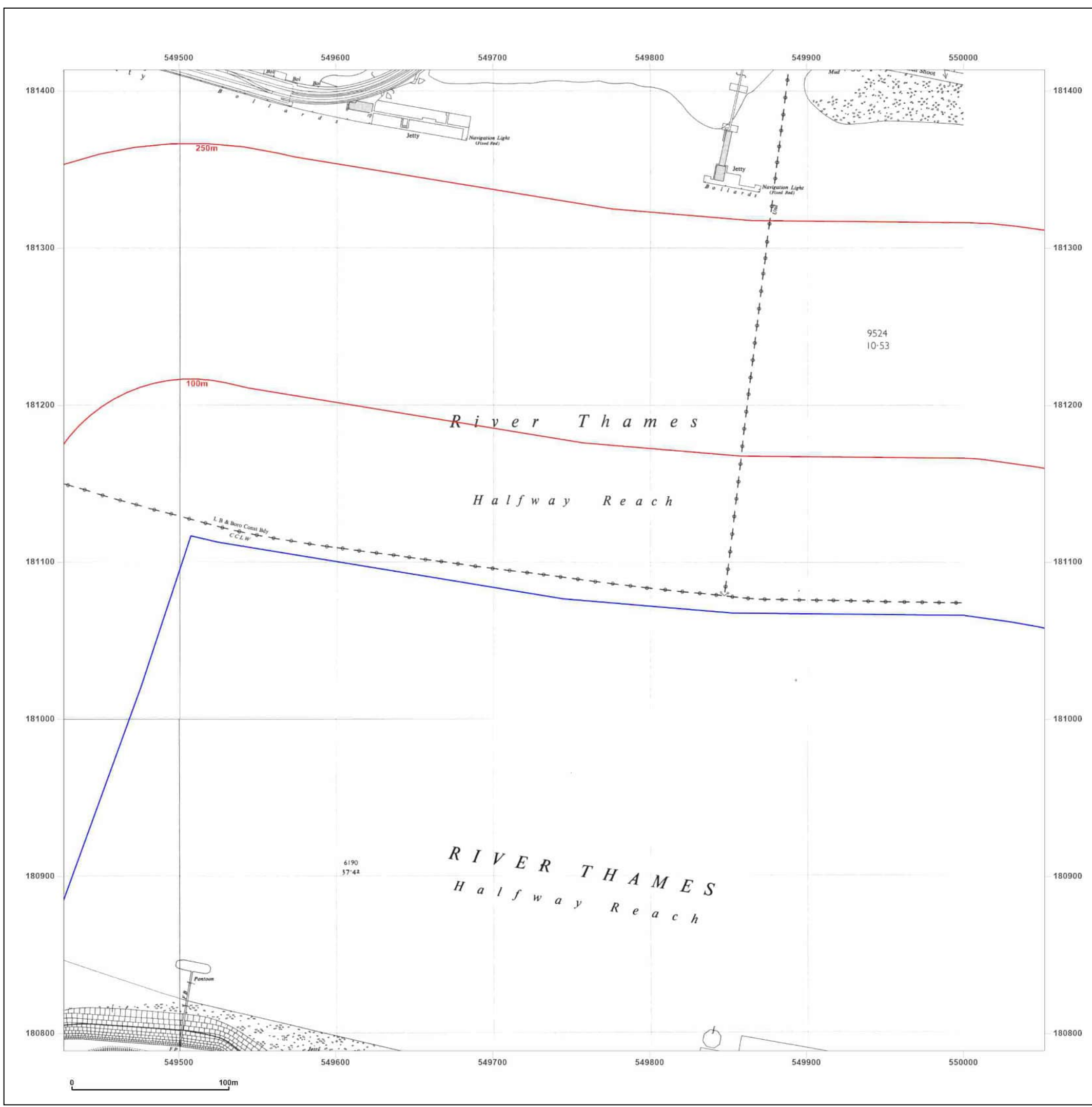


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_2_3
Grid Ref: 549739, 181101

Map Name: National Grid

Map date: 1963-1966

Scale: 1:2,500

Printed at: 1:2,500



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

Surveyed 1963
Revised 1963
Edition 1964
Copyright 1964
Levelled 1961



Surveyed 1963
Revised N/A
Edition 1966
Copyright N/A
Levelled N/A

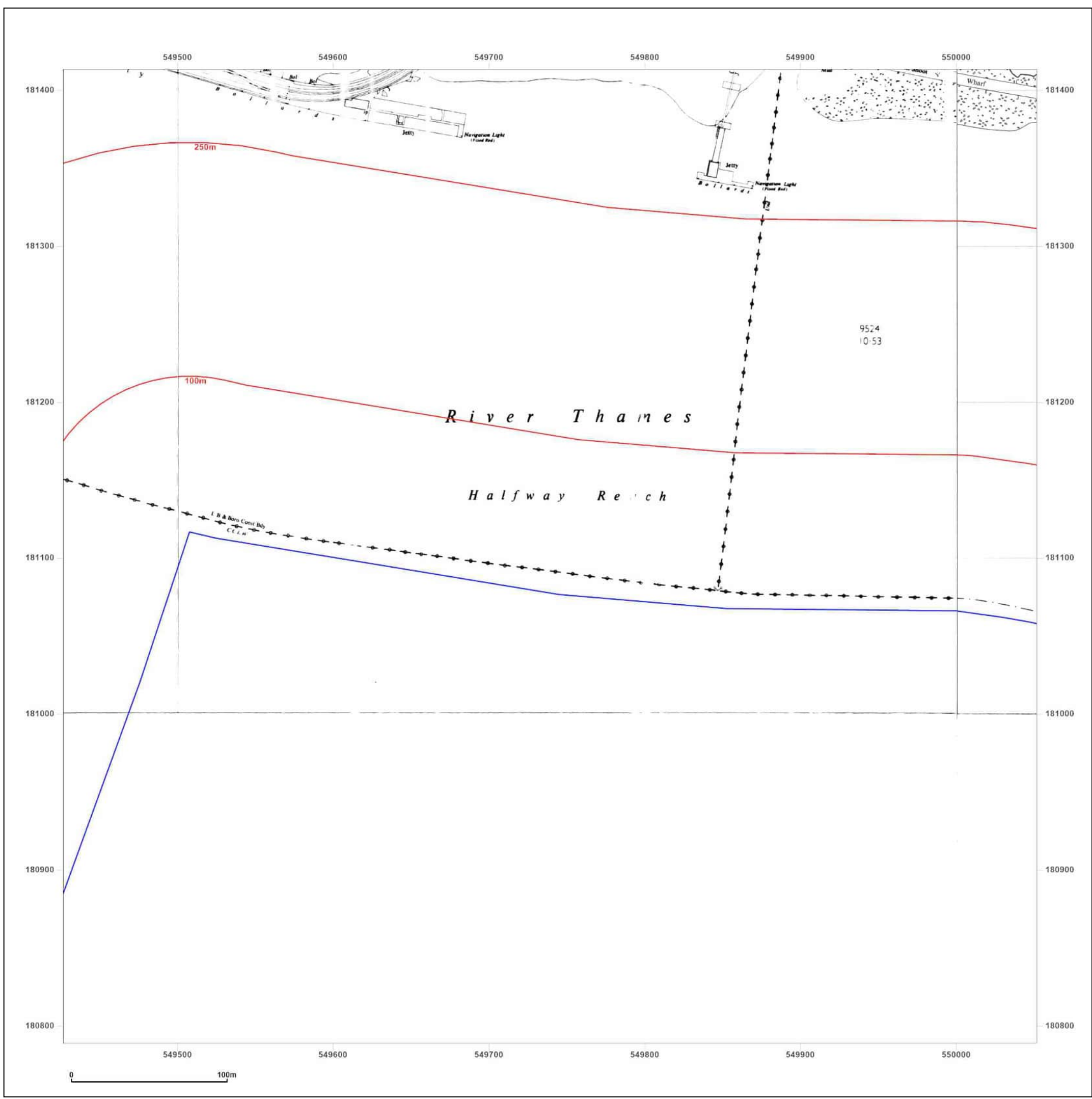


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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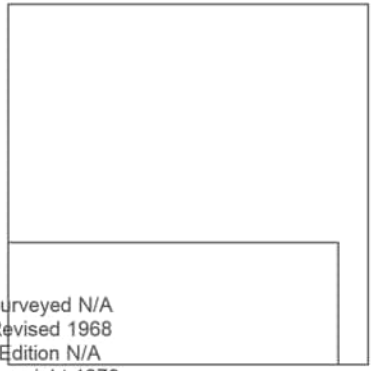
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Report Ref: GS-QCE-212-D95-XTT_LS_2_3
Grid Ref: 549739, 181101

Map Name: National Grid

Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500

Surveyed N/A
Revised 1968
Edition N/A
Copyright 1970
Levelled 1953

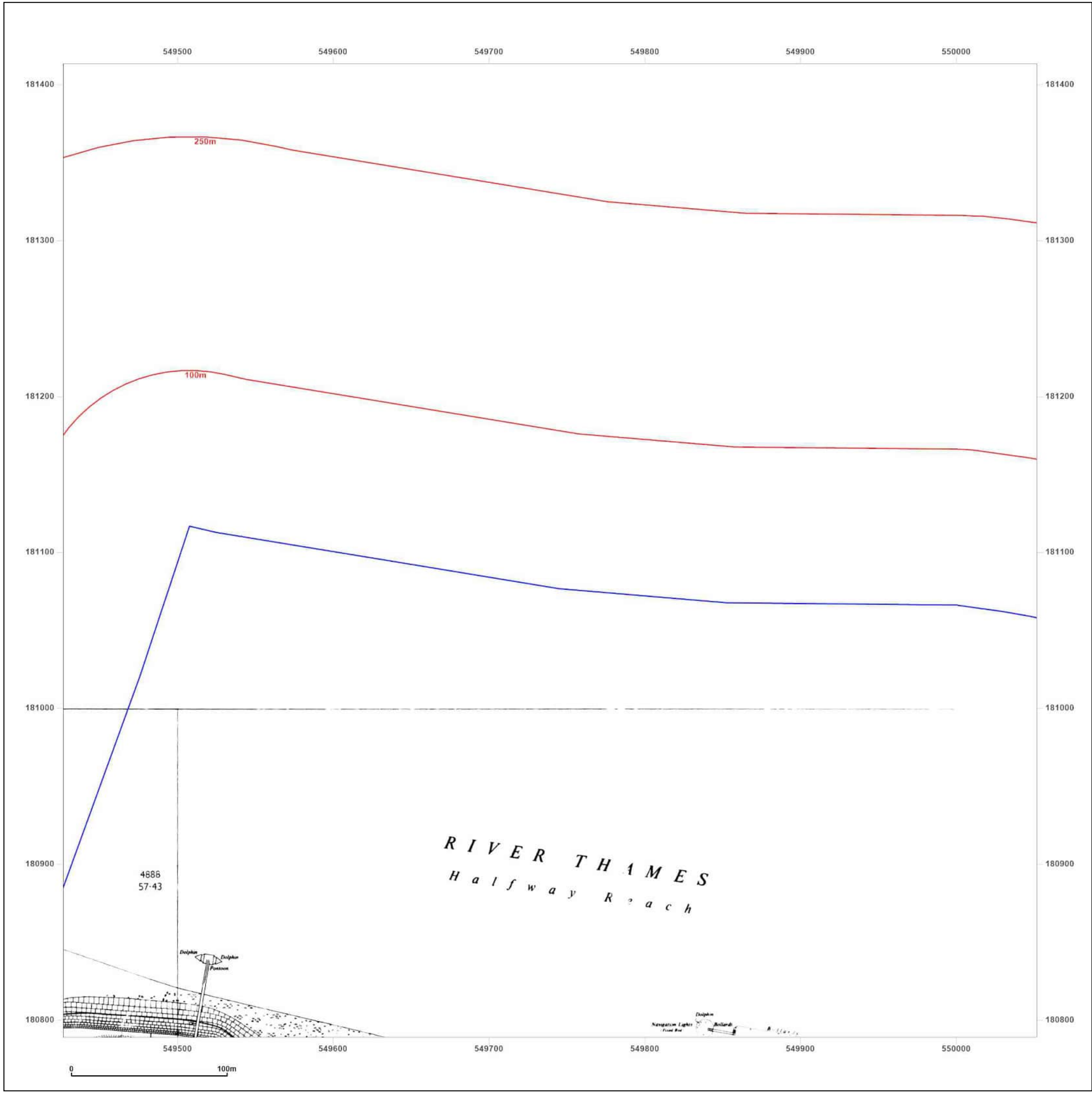


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_3_2
Grid Ref: 550364, 180476

Map Name: County Series

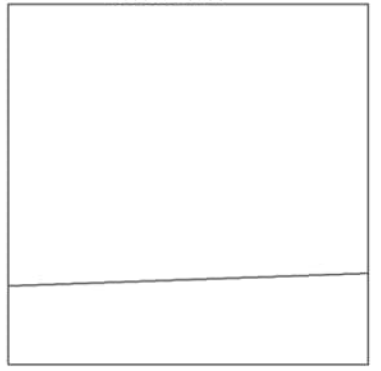
Map date: 1864

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1864
Revised 1864
Edition N/A
Copyright N/A
Levelled N/A

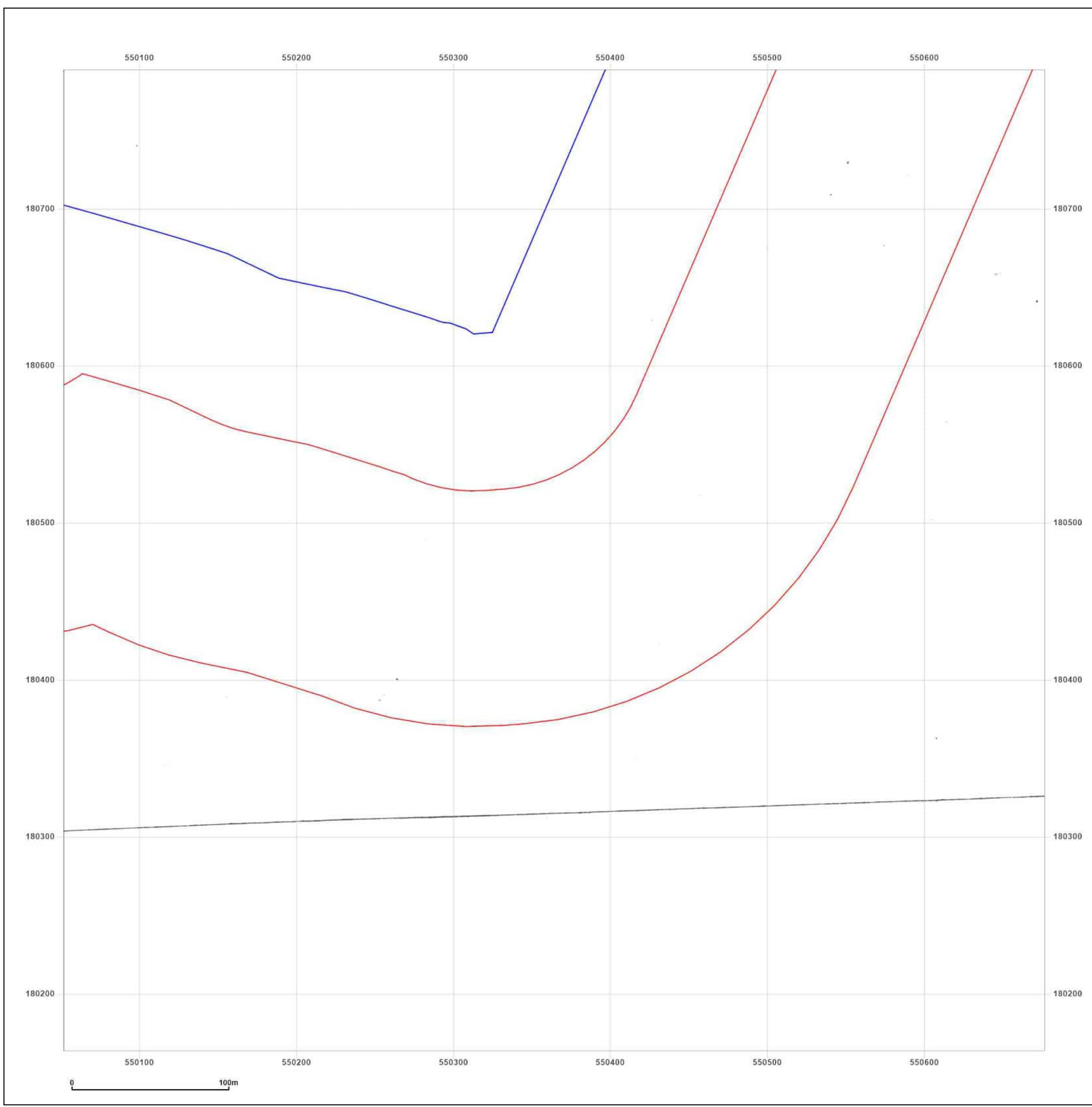



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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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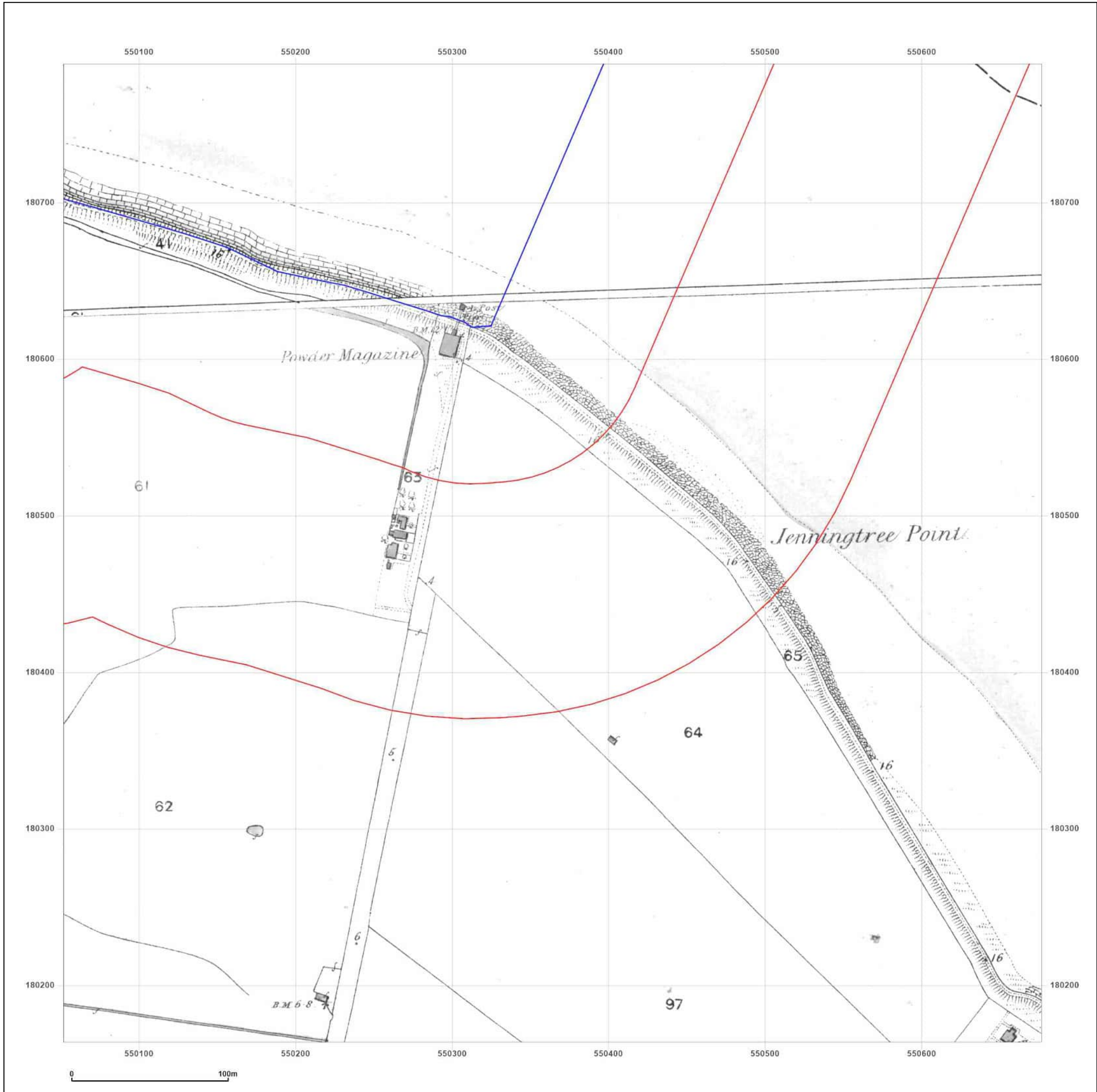
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Report Ref: GS-QCE-212-D95-XTT_LS_3_2
Grid Ref: 550364, 180476

Map Name: County Series

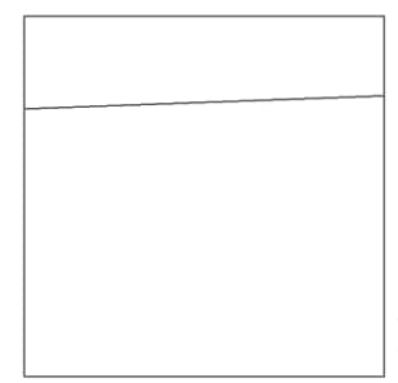
Map date: 1865

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1865
Revised 1865
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1865
Revised 1865
Edition N/A
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Production date: 26 October 2023

Map legend available at: [REDACTED]

Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_3_2
Grid Ref: 550364, 180476

Map Name: County Series

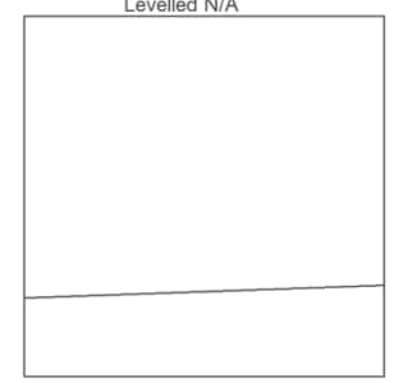
Map date: 1867

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A

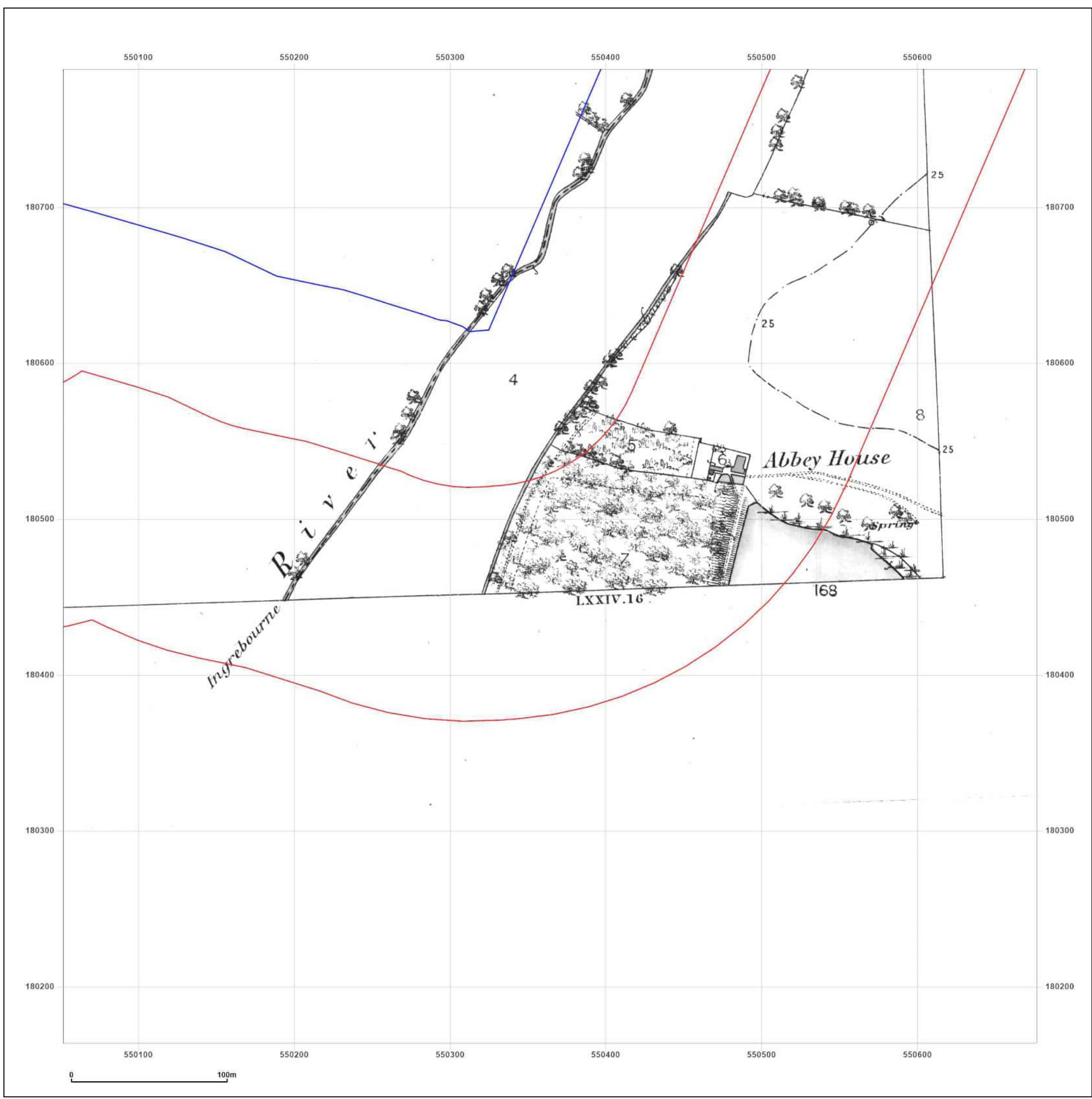


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Production date: 26 October 2023

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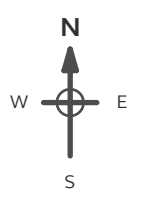


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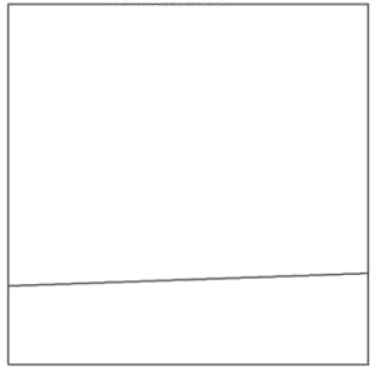
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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_3_2
Grid Ref: 550364, 180476

Map Name: County Series
Map date: 1867
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A

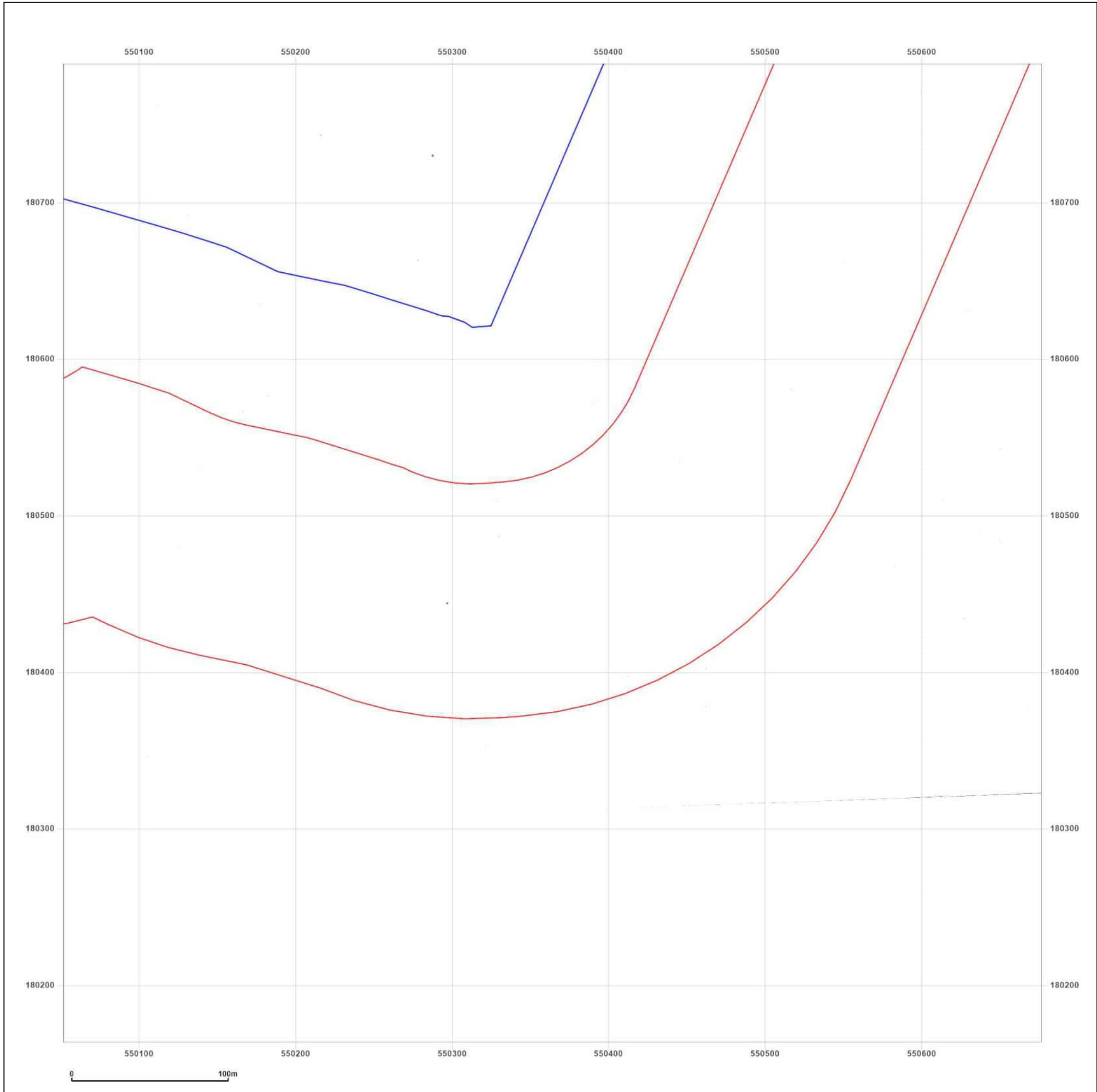


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Map legend available at: [REDACTED]

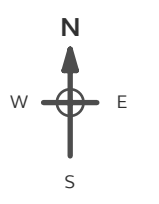


Site Details:

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620791927

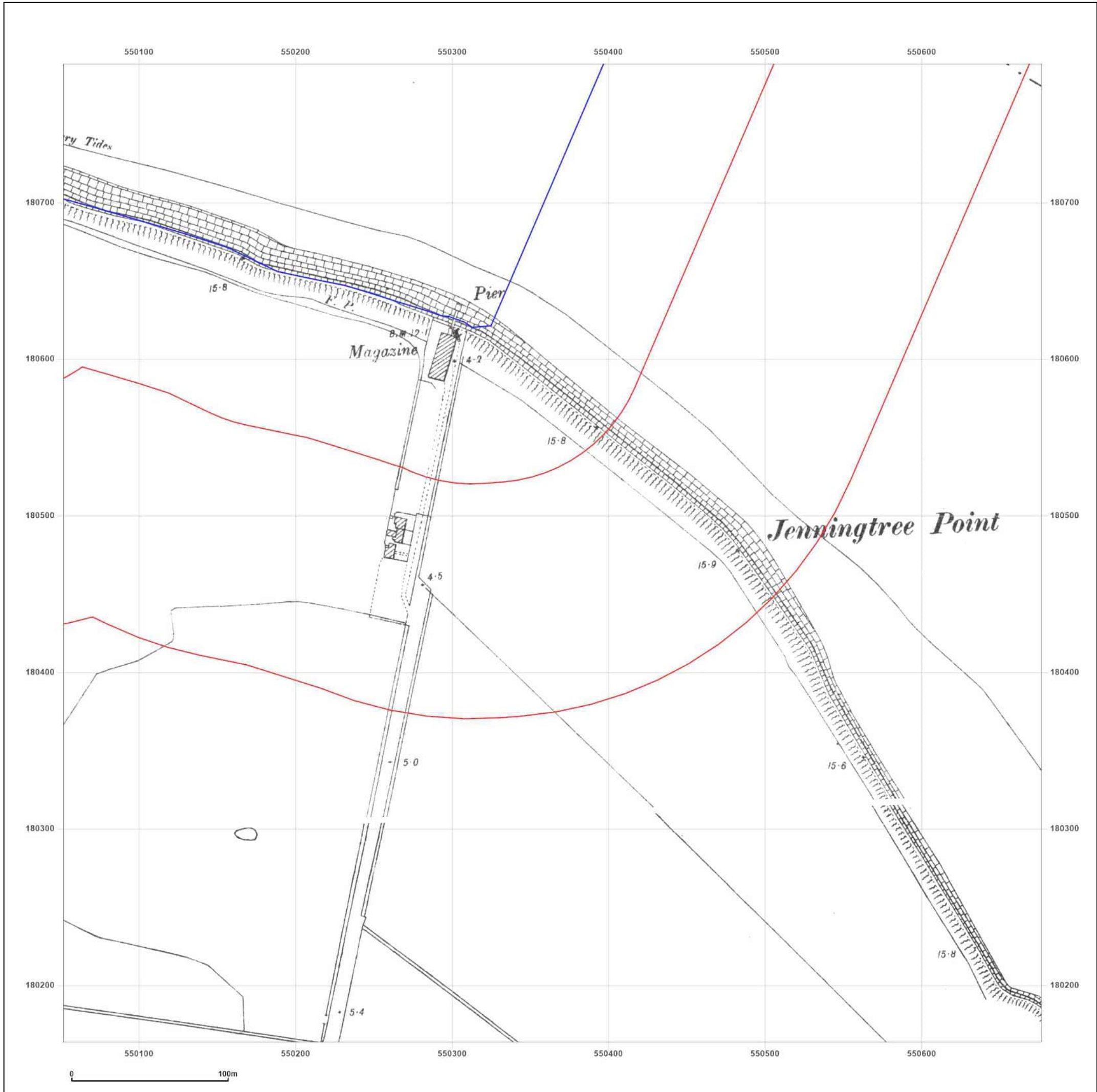
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Report Ref: GS-QCE-212-D95-XTT_LS_3_2
Grid Ref: 550364, 180476

Map Name: County Series
Map date: 1897
Scale: 1:2,500
Printed at: 1:2,500




Surveyed 1897
 Revised 1897
 Edition N/A
 Copyright N/A
 Levelled N/A

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 Revised 1897
 Edition N/A
 Copyright N/A
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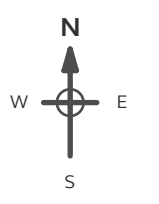
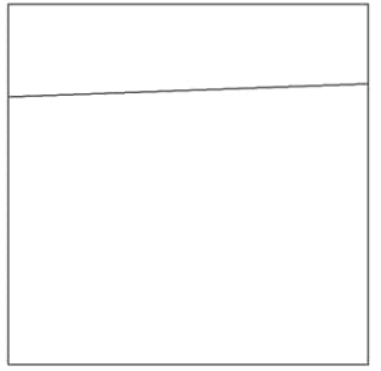
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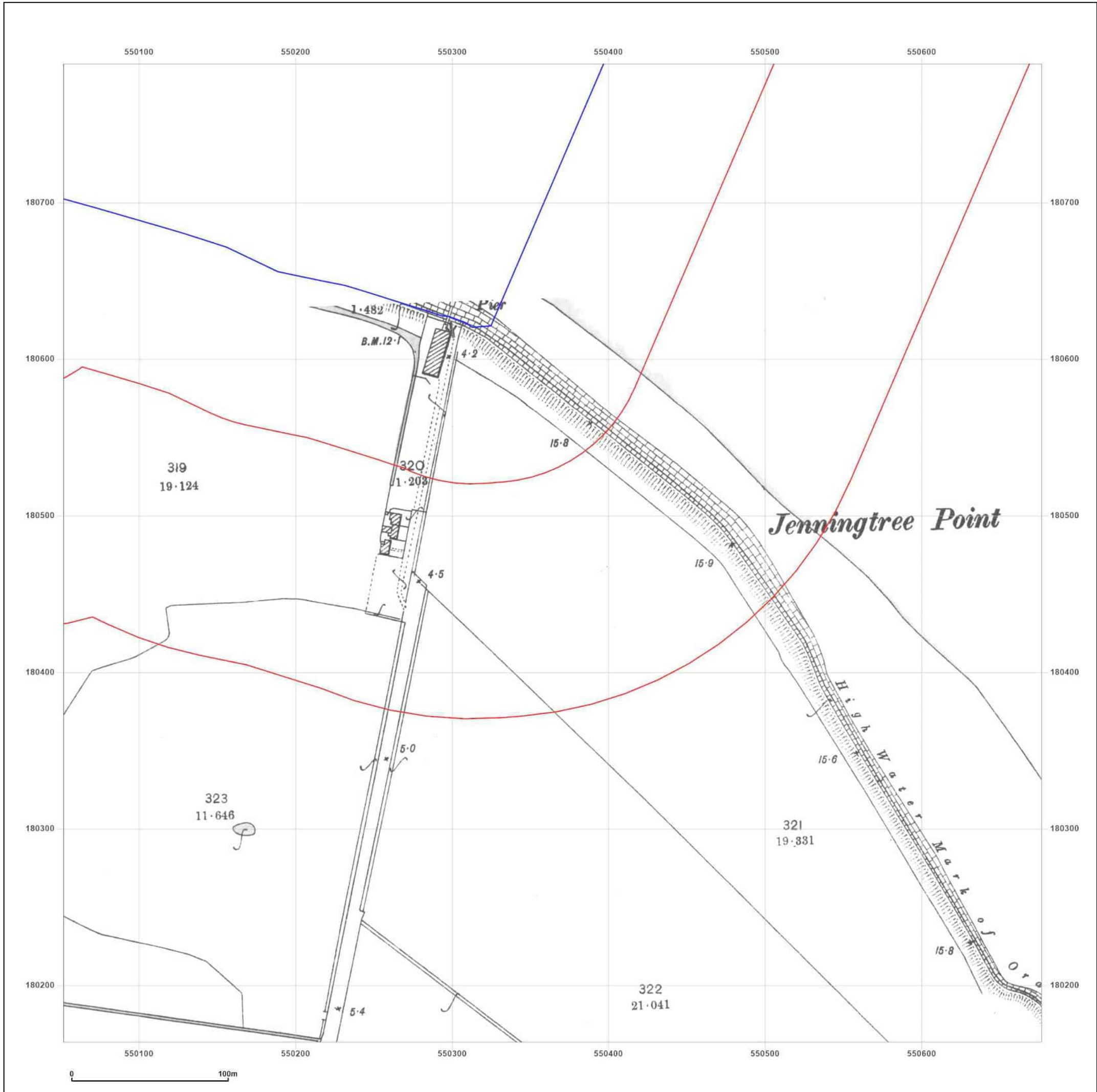
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Report Ref: GS-QCE-212-D95-XTT_LS_3_2
Grid Ref: 550364, 180476

Map Name: County Series
Map date: 1897
Scale: 1:2,500
Printed at: 1:2,500

Surveyed 1897
Revised 1897
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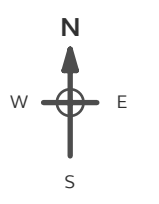
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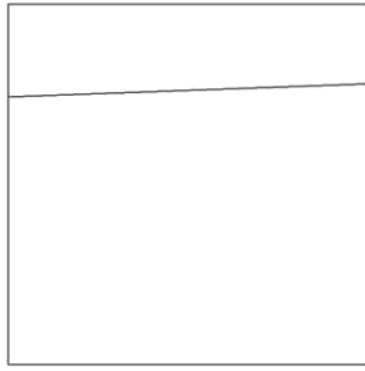
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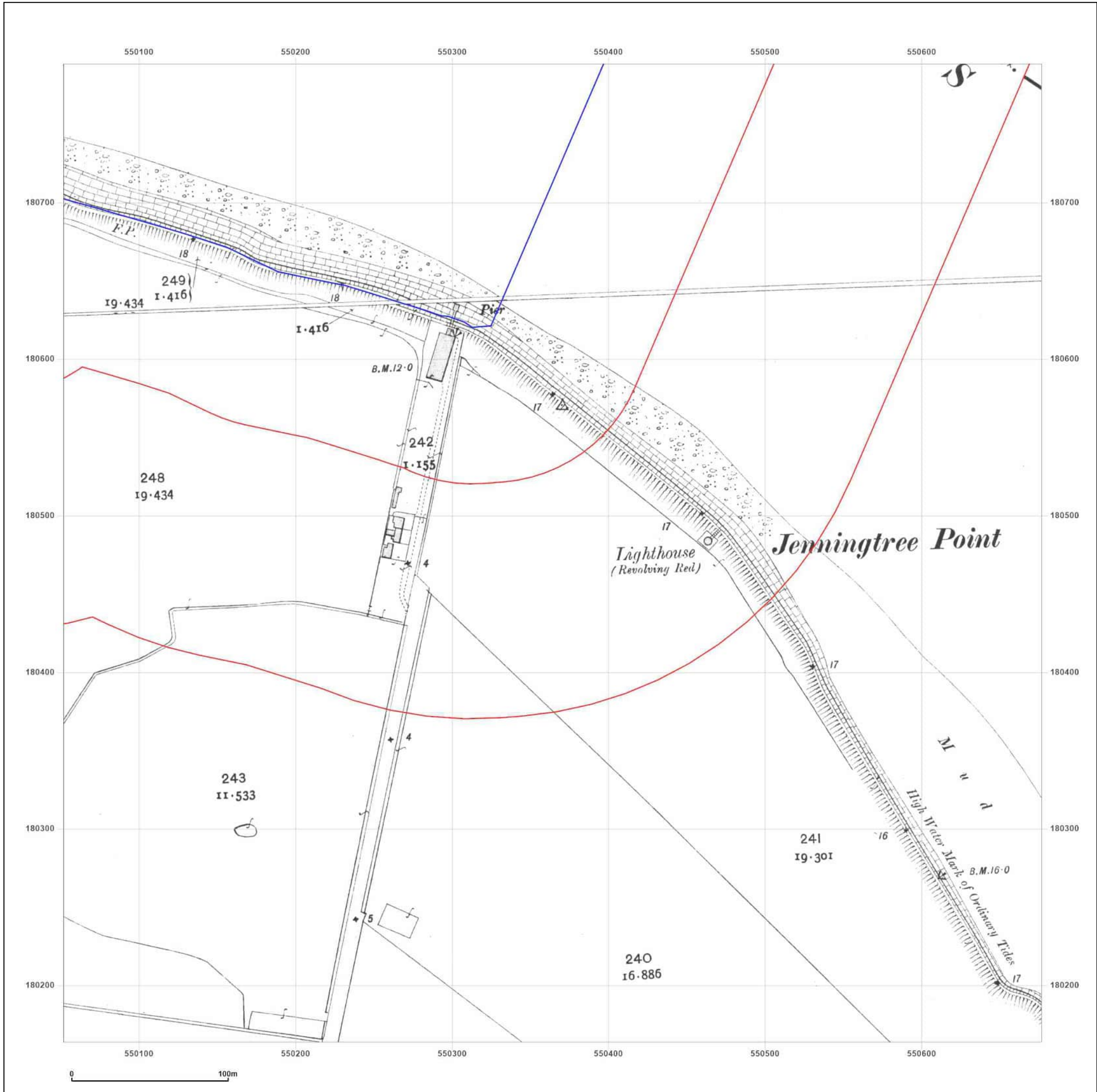
Map Name: County Series
Map date: 1909
Scale: 1:2,500
Printed at: 1:2,500




Surveyed 1909
Revised 1909
Edition N/A
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Revised 1909
Edition N/A
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Map legend available at: [REDACTED]

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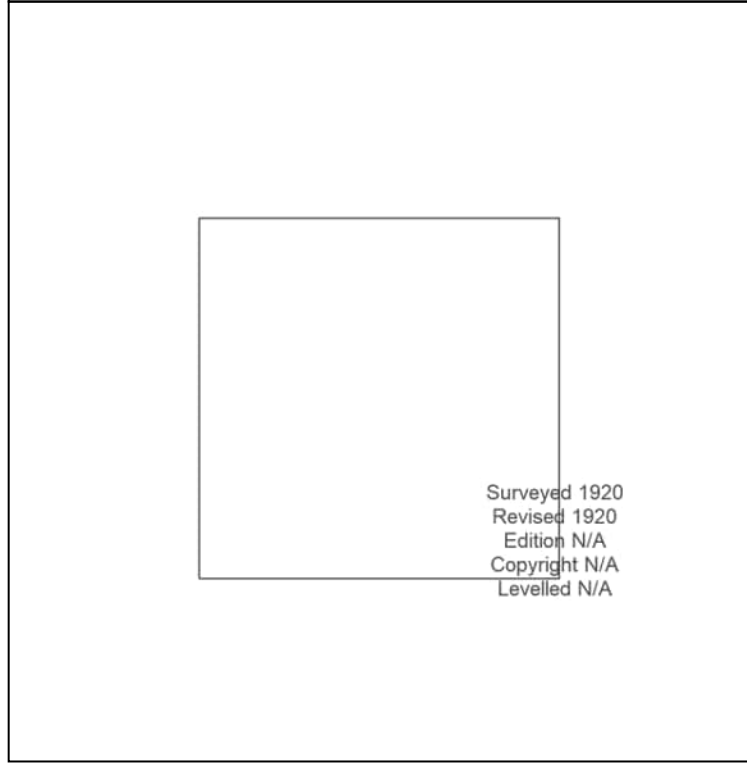
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Grid Ref: 550364, 180476

Map Name: County Series

Map date: 1920

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

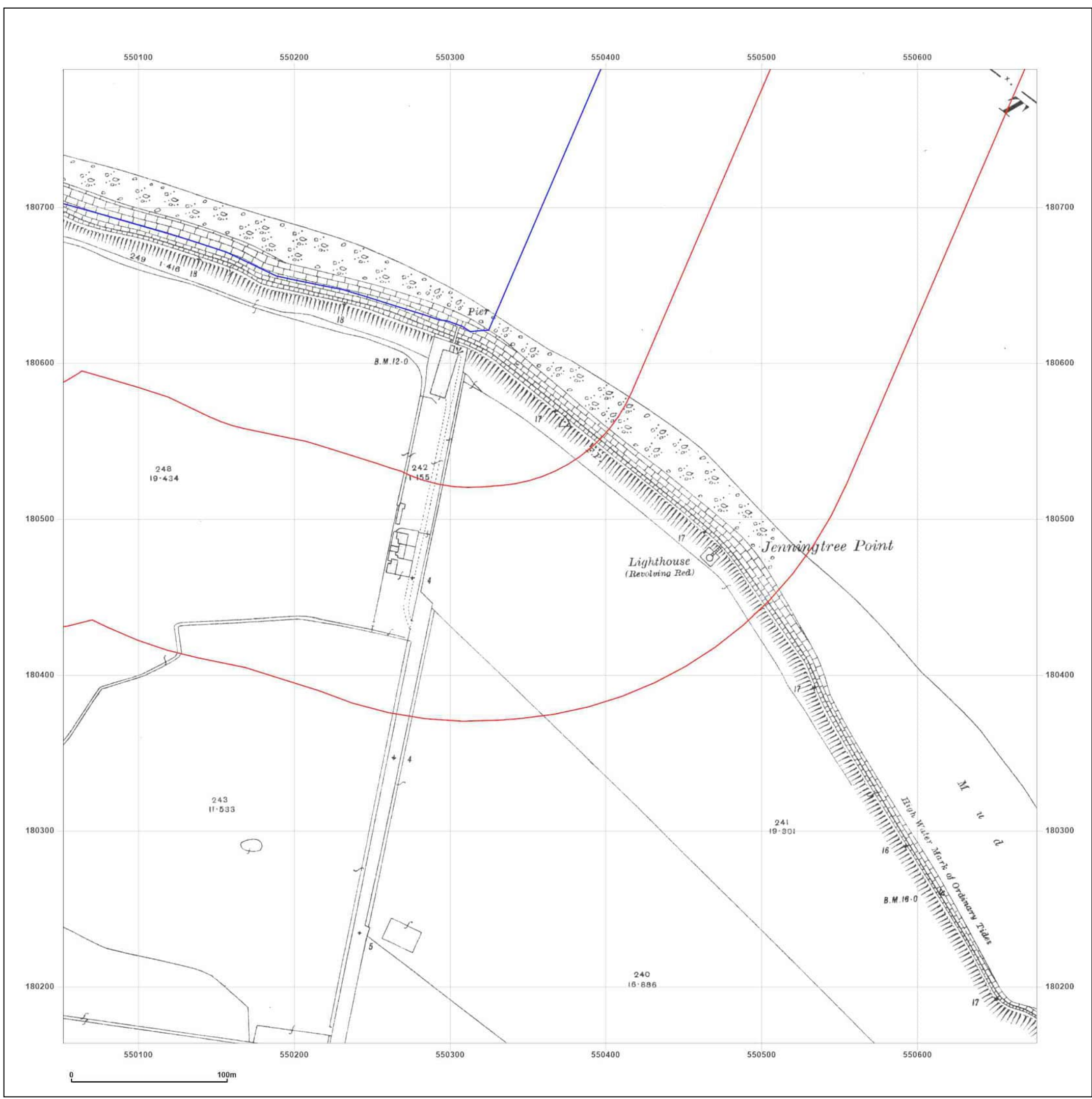


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Production date: 26 October 2023

Map legend available at: [REDACTED]

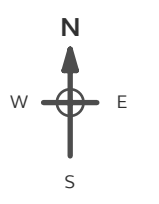


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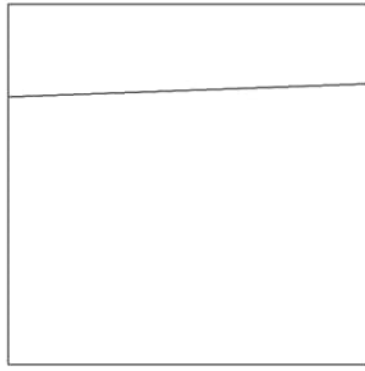
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Grid Ref: 550364, 180476

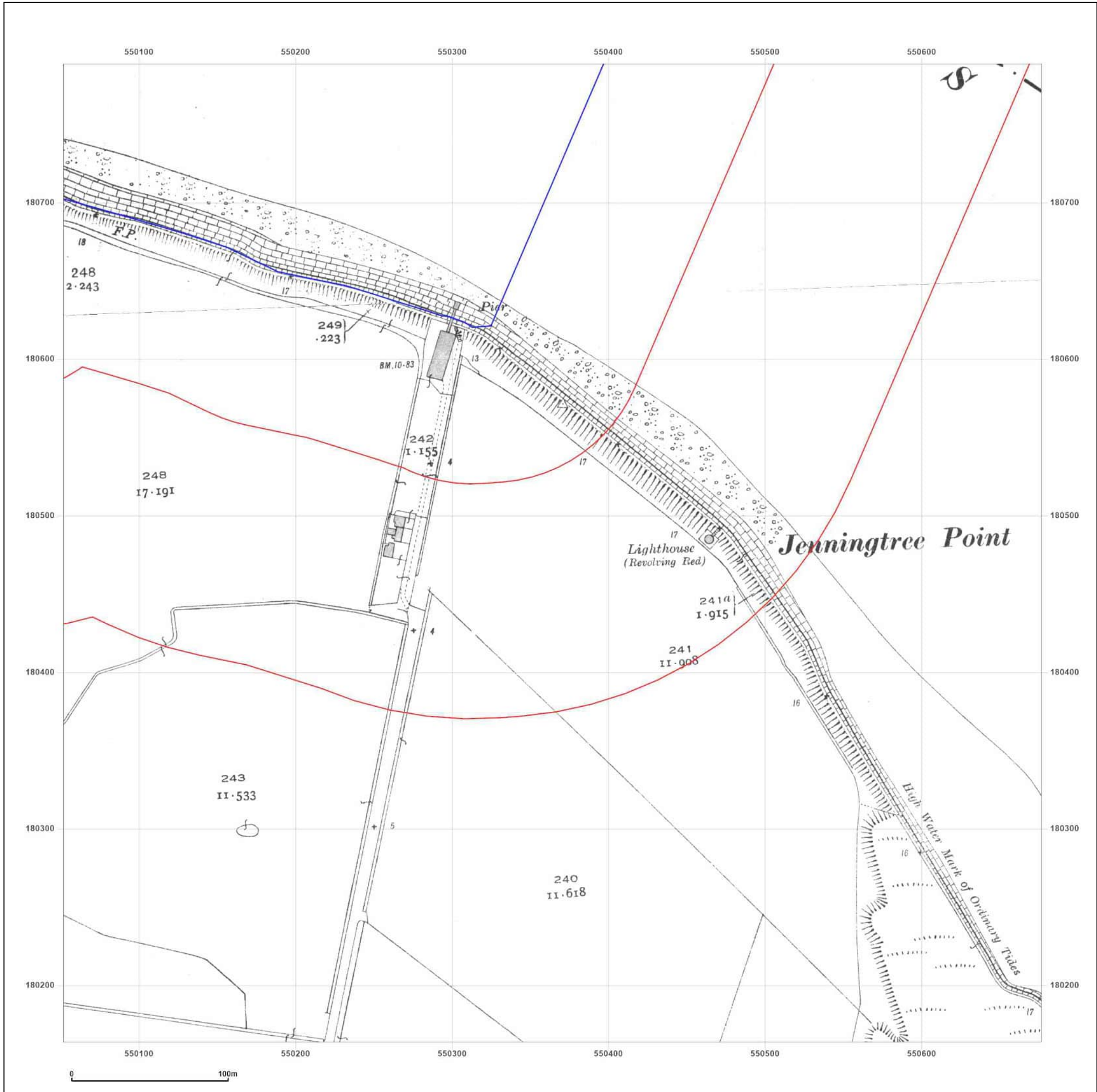
Map Name: County Series
Map date: 1933
Scale: 1:2,500
Printed at: 1:2,500




Surveyed 1933
Revised 1933
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1933
Revised 1933
Edition N/A
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Levelled N/A





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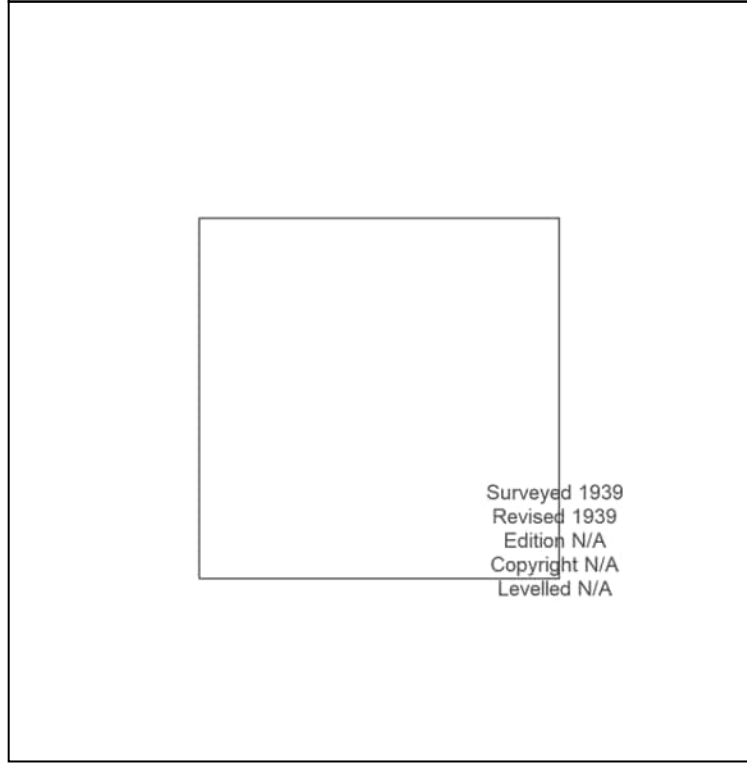
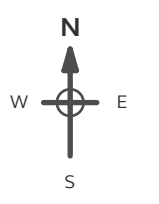
Map legend available at: [REDACTED]

Site Details:

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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_3_2
Grid Ref: 550364, 180476

Map Name: County Series
Map date: 1939
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1939
Revised 1939
Edition N/A
Copyright N/A
Levelled N/A

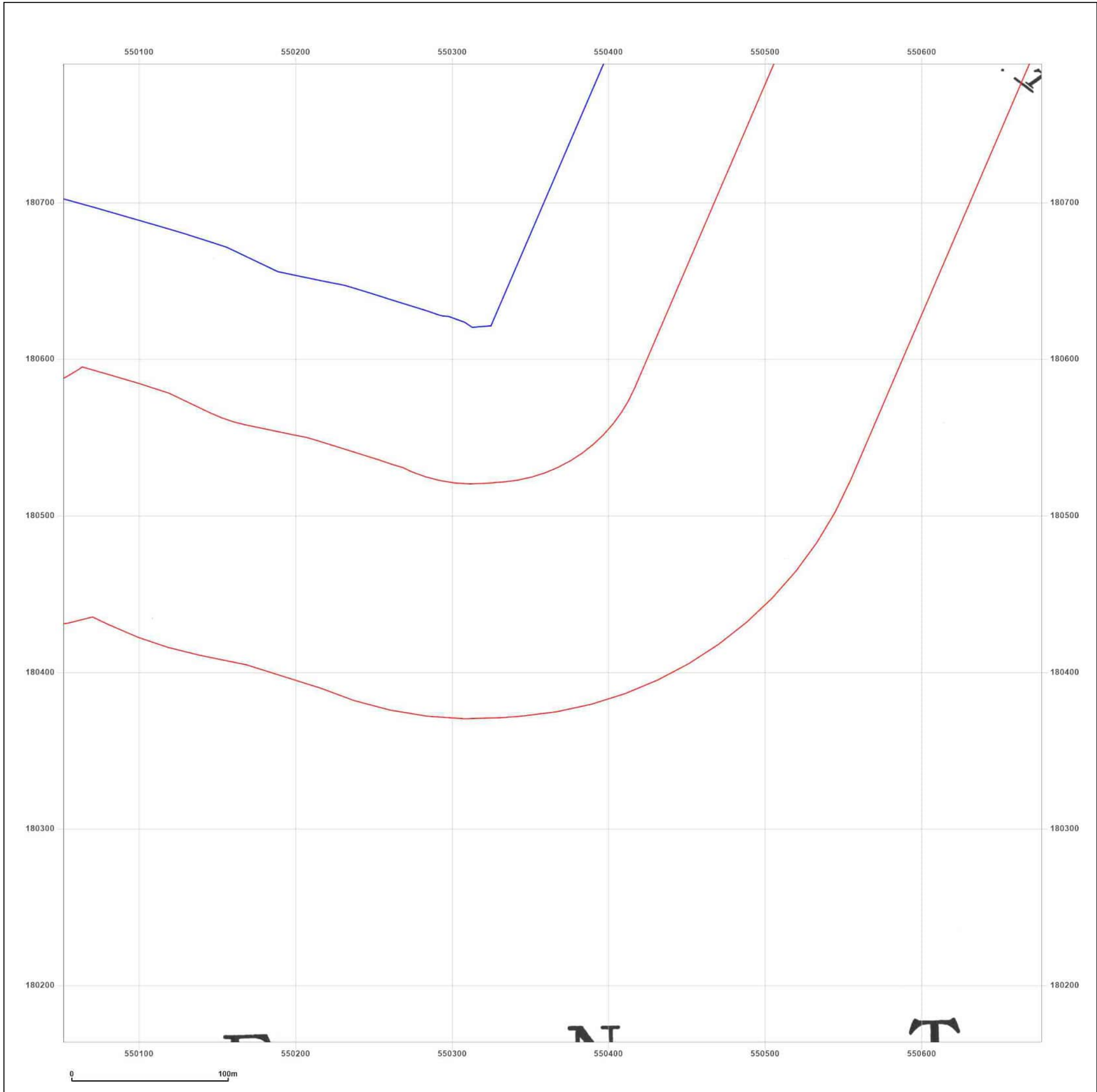


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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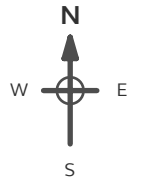
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Report Ref: GS-QCE-212-D95-XTT_LS_3_2
Grid Ref: 550364, 180476

Map Name: National Grid

Map date: 1966

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1963
Revised N/A
Edition 1966
Copyright N/A
Levelled N/A

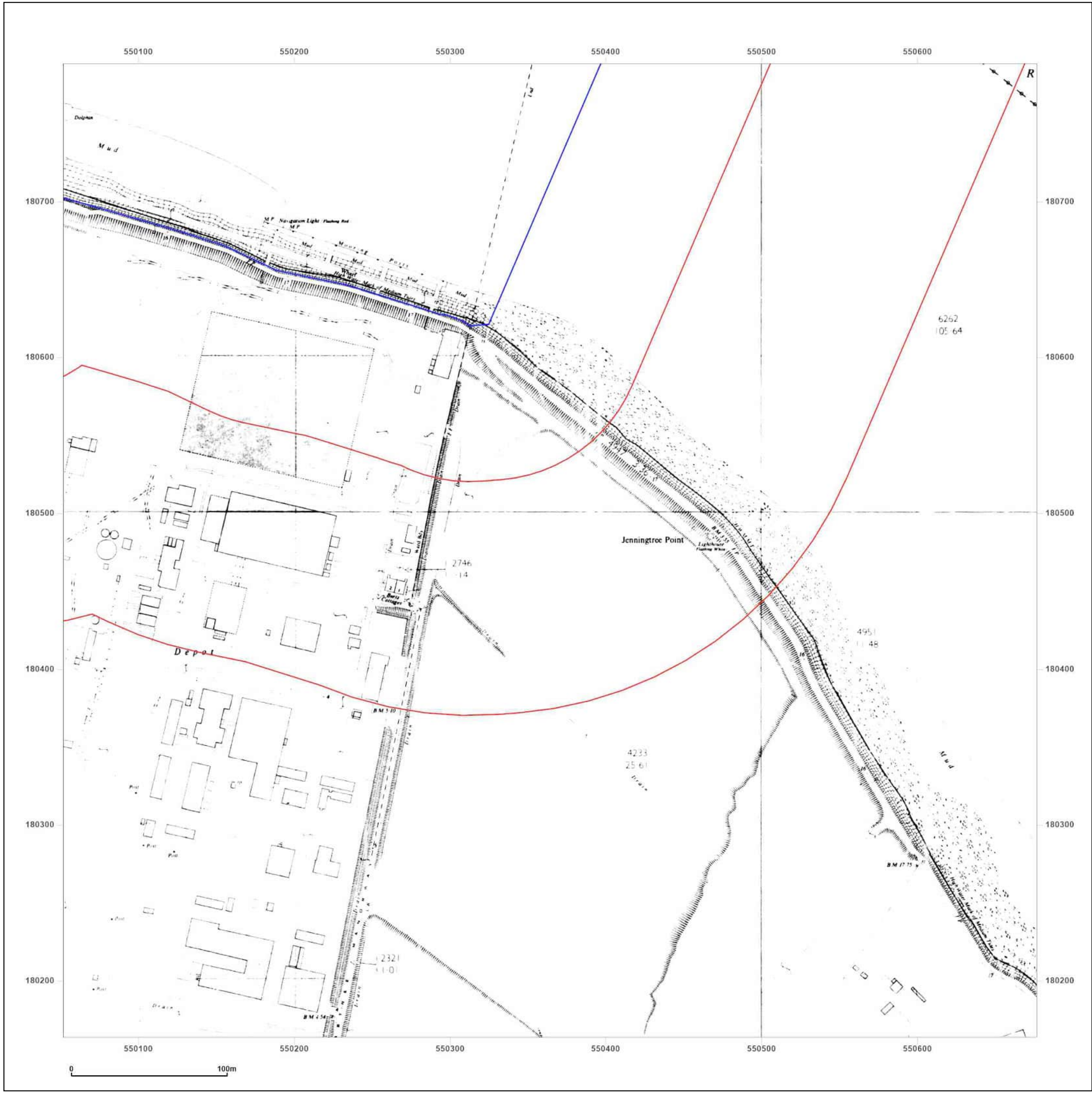


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_3_3
Grid Ref: 550364, 181101

Map Name: County Series
Map date: 1864
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1864
Revised 1864
Edition N/A
Copyright N/A
Levelled N/A

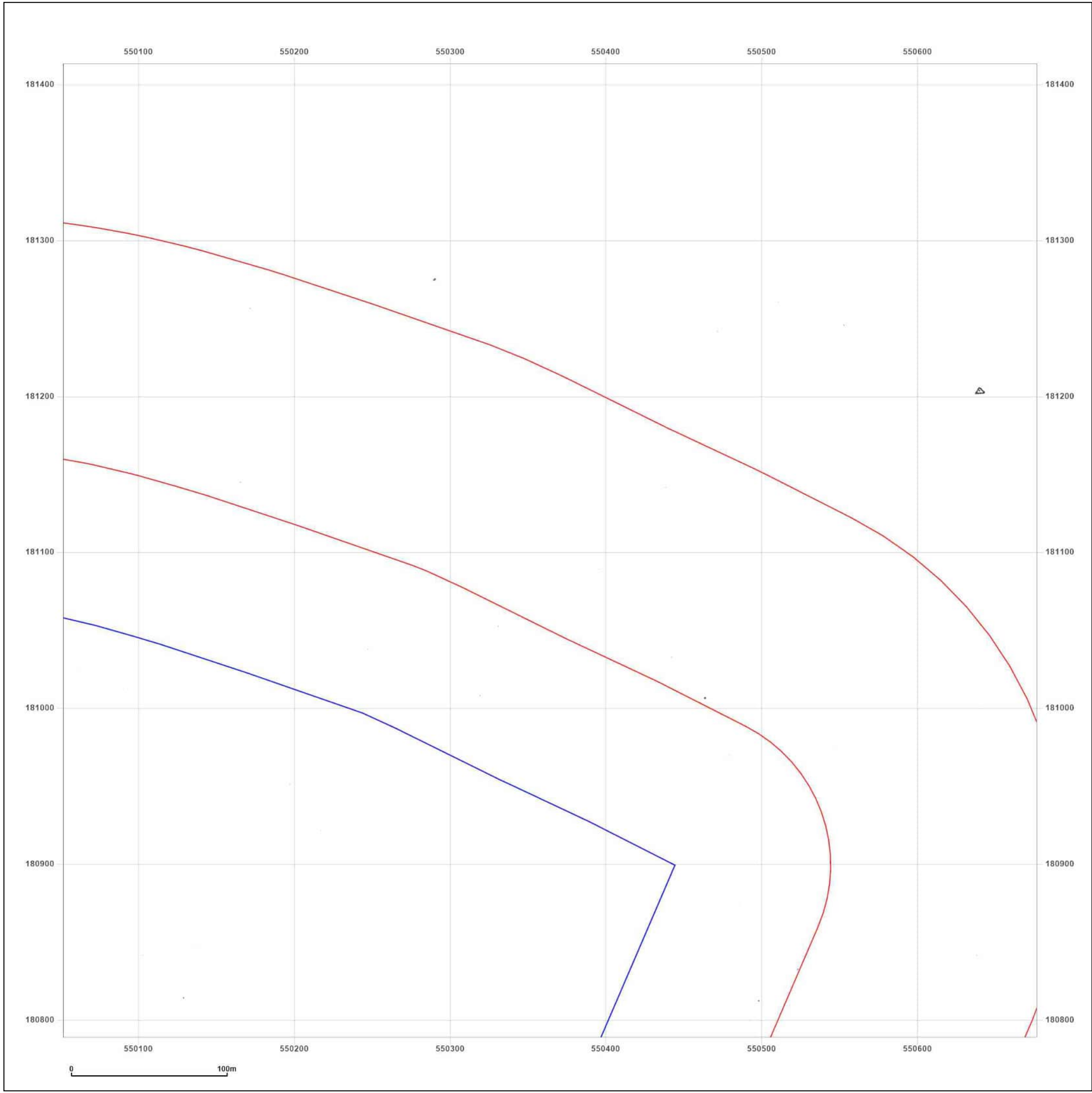


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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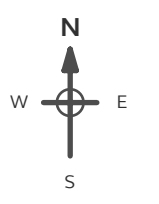
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Report Ref: GS-QCE-212-D95-XTT_LS_3_3
Grid Ref: 550364, 181101

Map Name: County Series

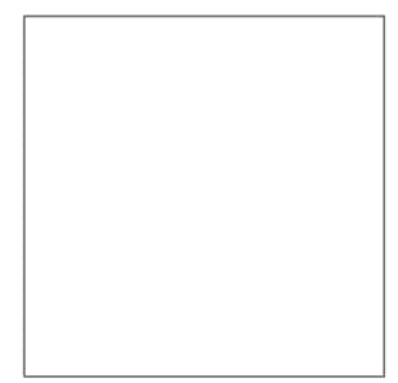
Map date: 1865

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1865
Revised 1865
Edition N/A
Copyright N/A
Levelled N/A

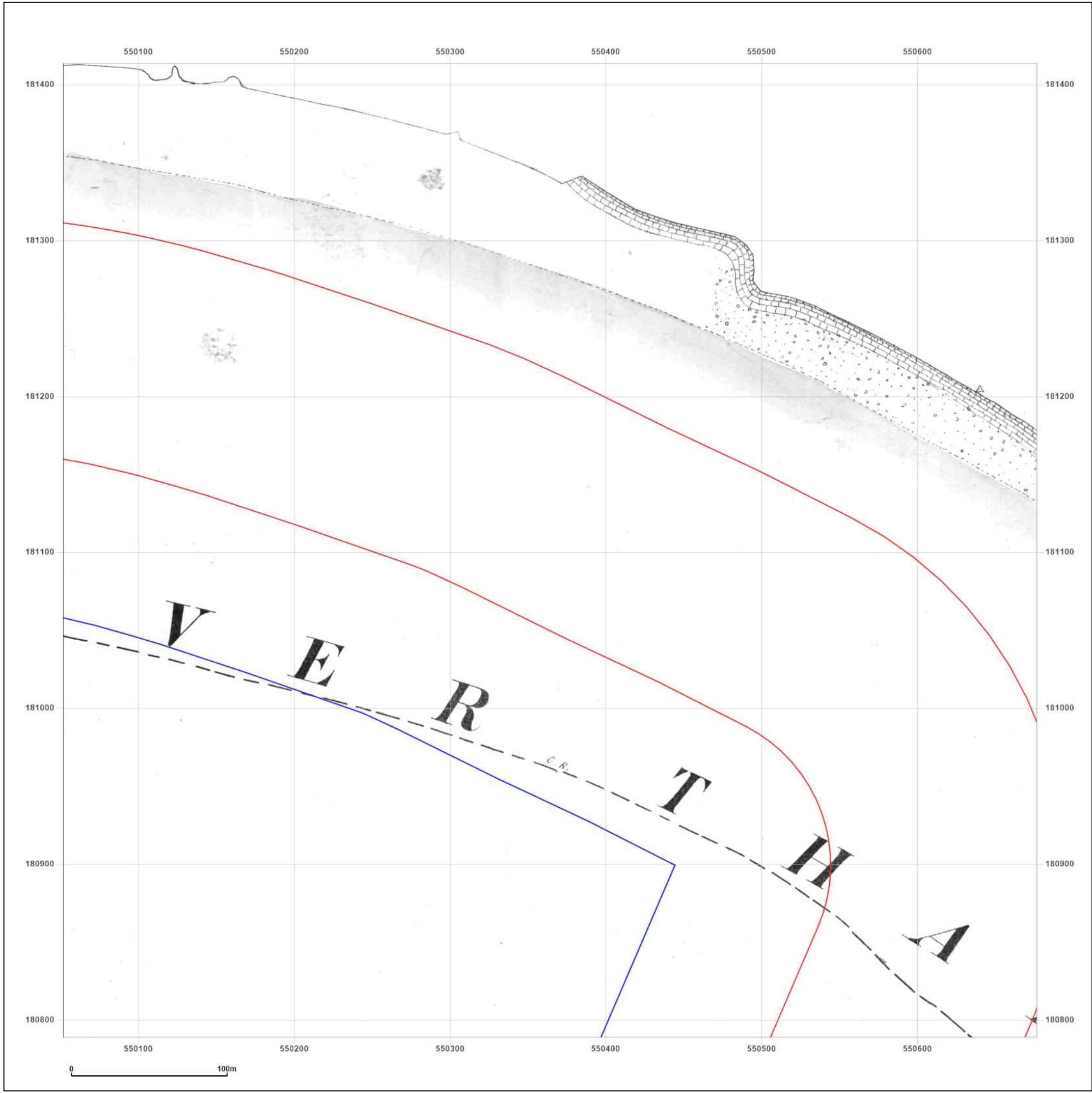


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Production date: 26 October 2023

Map legend available at: [REDACTED]

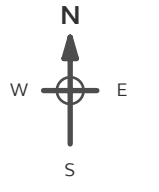


Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_3_3
Grid Ref: 550364, 181101

Map Name: County Series
Map date: 1867
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A

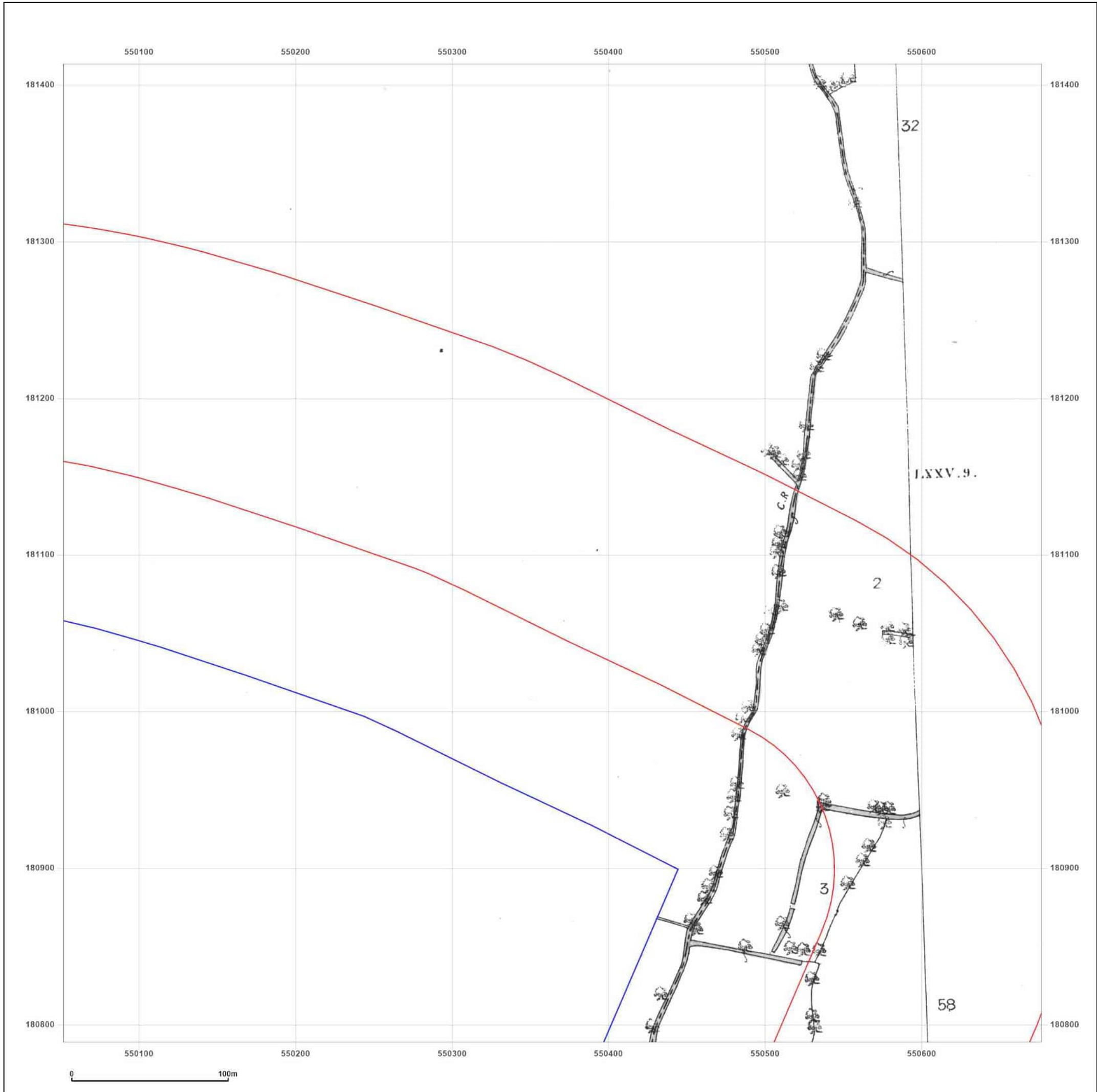


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Site Details:

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620791927

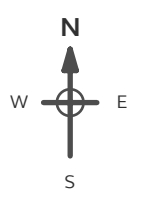
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Grid Ref: 550364, 181101

Map Name: County Series

Map date: 1867

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A

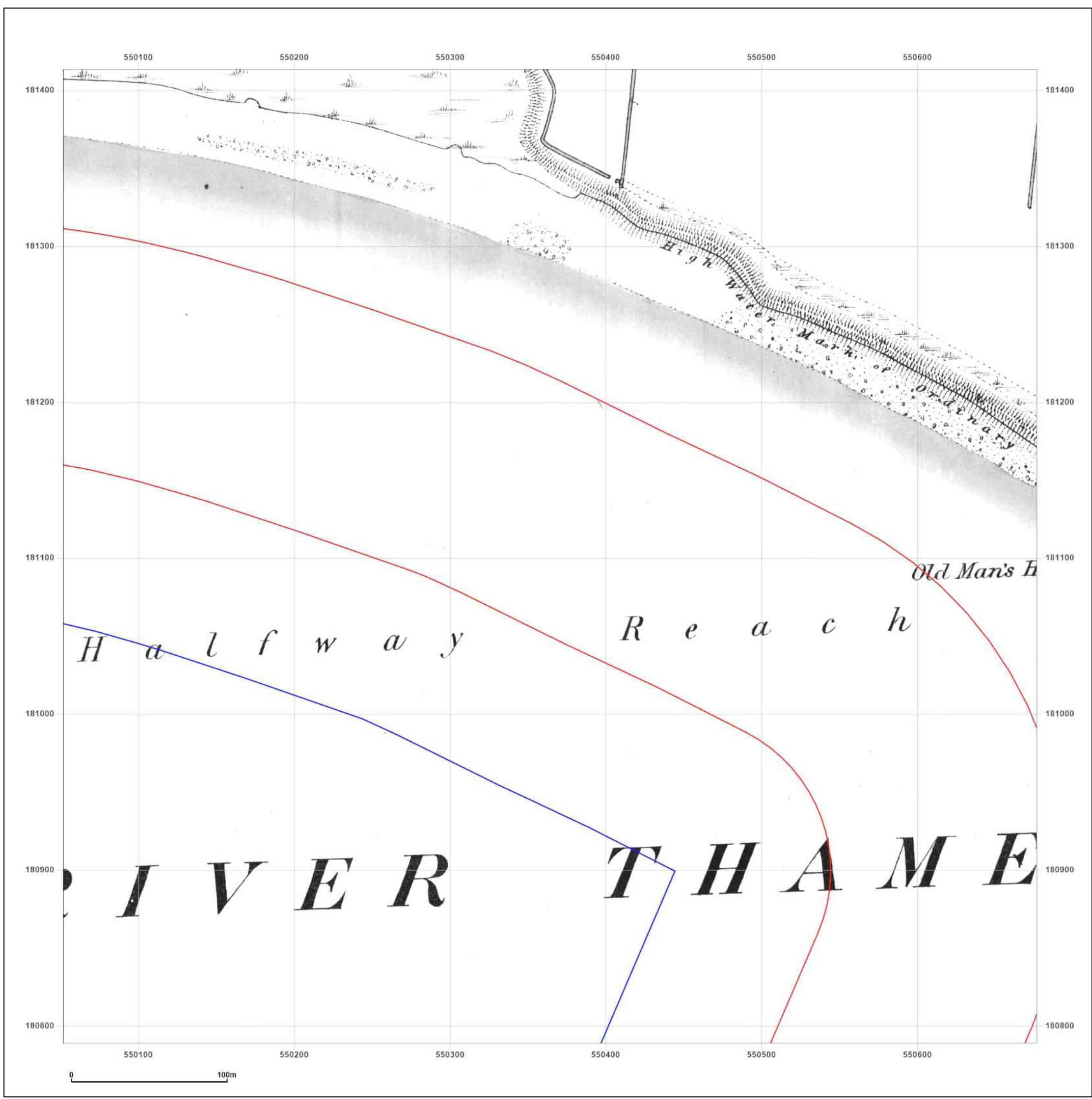


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Production date: 26 October 2023

Map legend available at: [REDACTED]

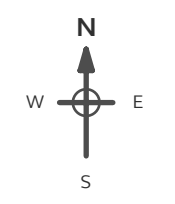


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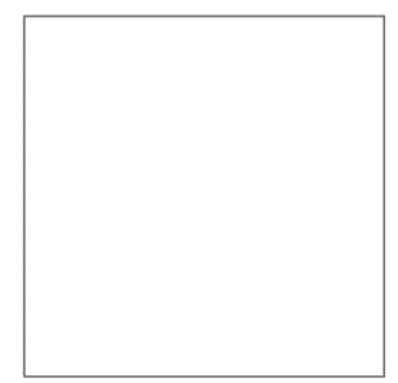
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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_3_3
Grid Ref: 550364, 181101

Map Name: County Series
Map date: 1897
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

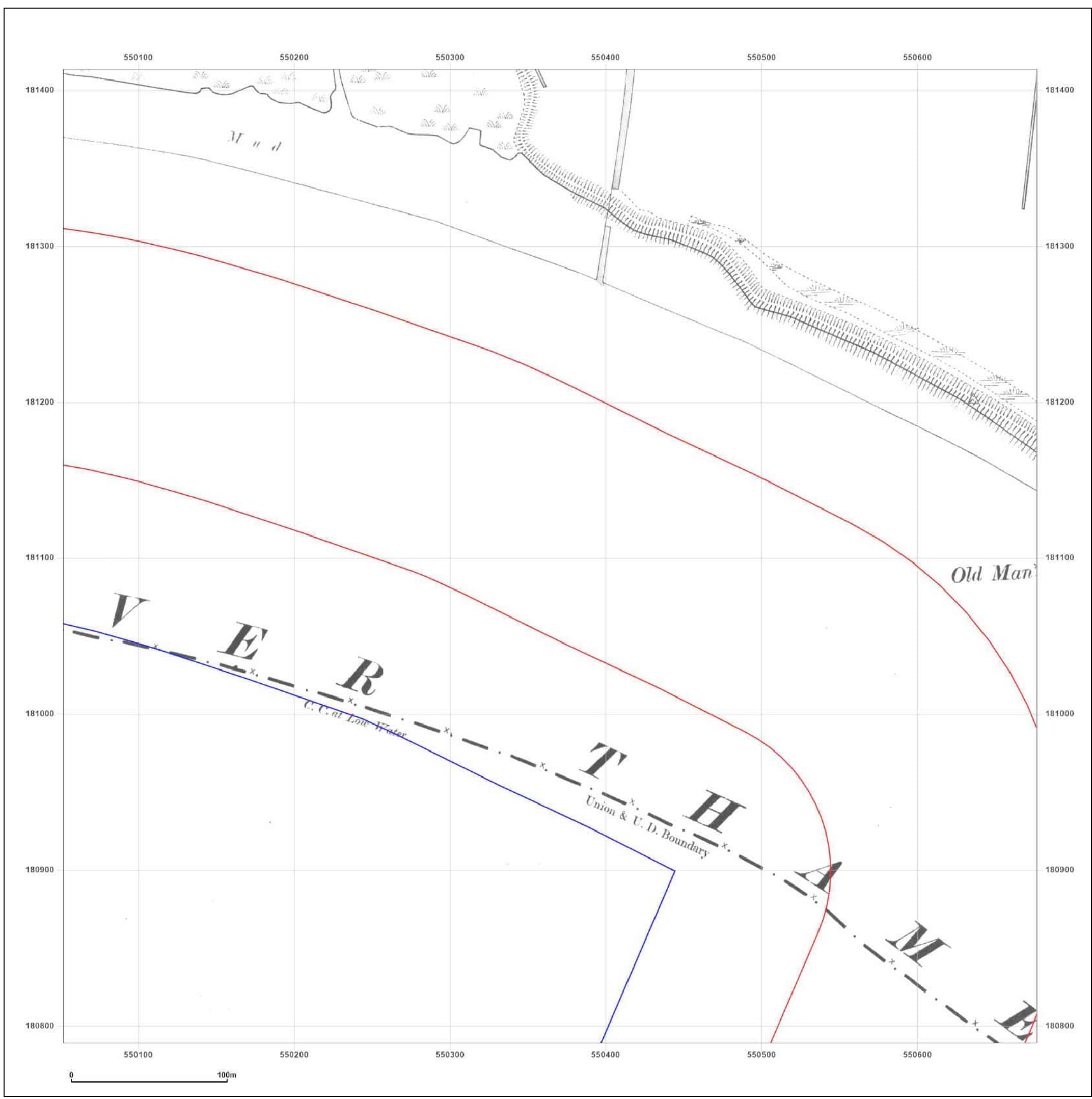


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Production date: 26 October 2023

Map legend available at: [REDACTED]

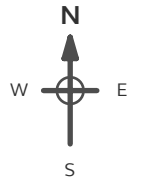


Site Details:

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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_3_3
Grid Ref: 550364, 181101

Map Name: County Series
Map date: 1897
Scale: 1:2,500
Printed at: 1:2,500



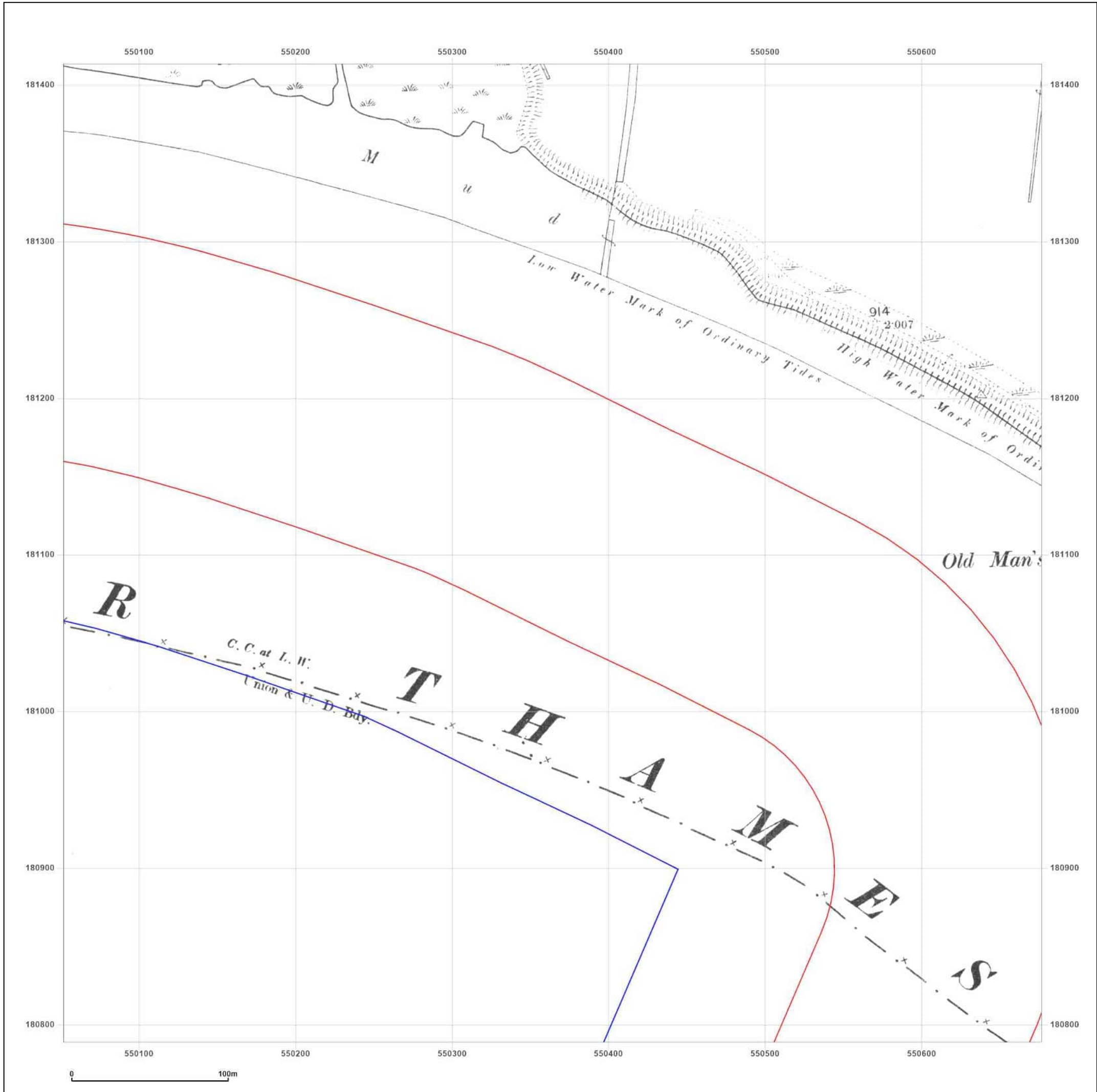
Surveyed 1897
Revised 1897
Edition N/A
Copyright N/A
Levelled N/A

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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_3_3
Grid Ref: 550364, 181101

Map Name: County Series

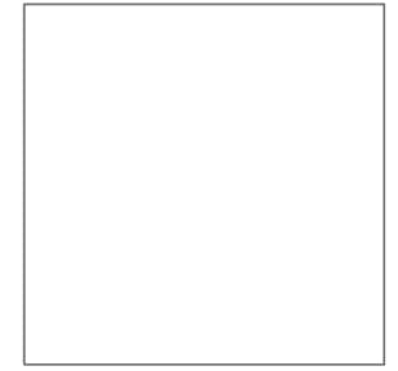
Map date: 1909

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

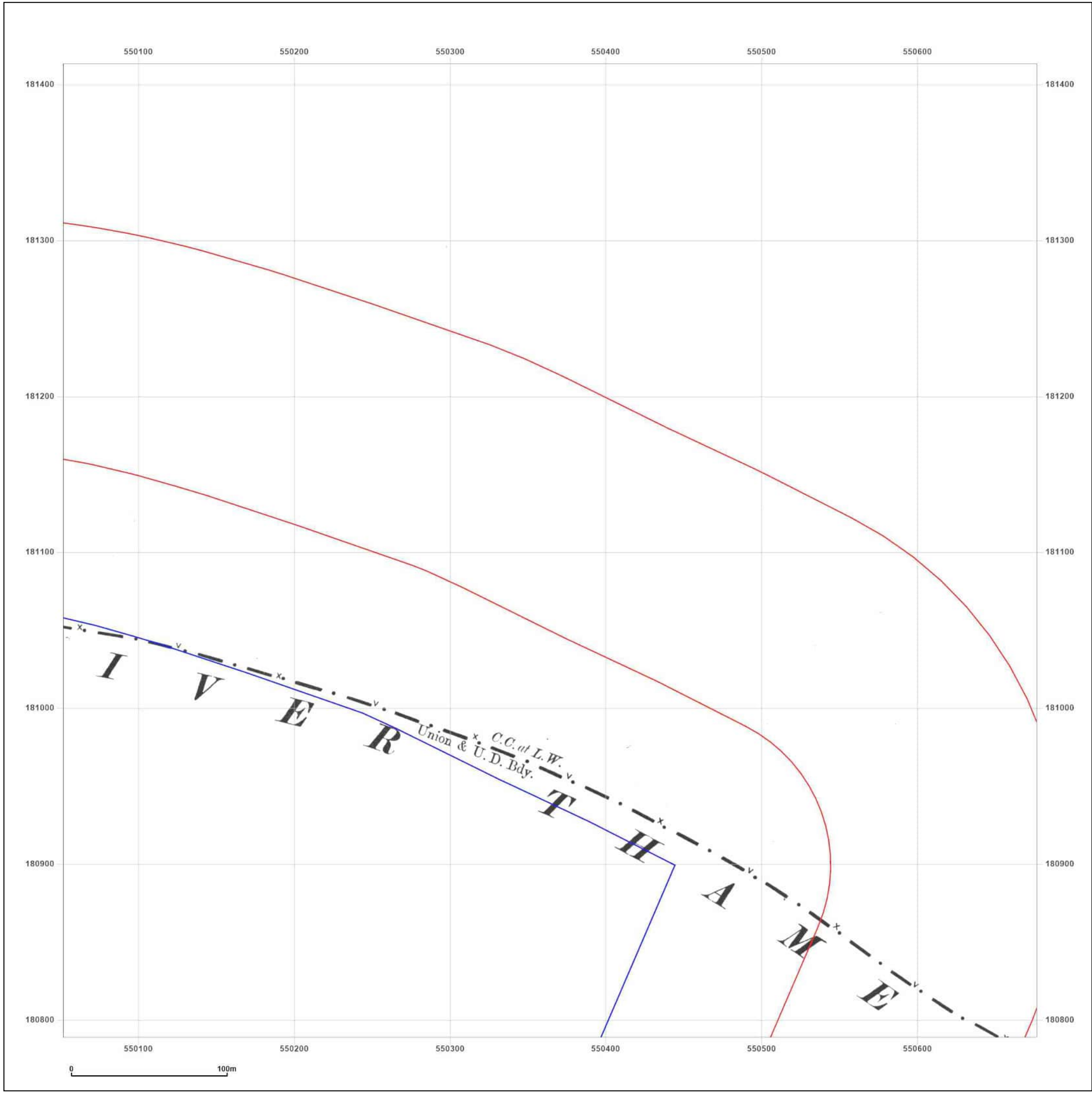


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Production date: 26 October 2023

Map legend available at: [REDACTED]

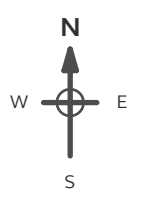


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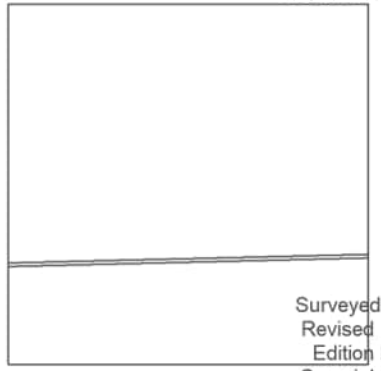
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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_3_3
Grid Ref: 550364, 181101


Map Name: County Series
Map date: 1920
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1920
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

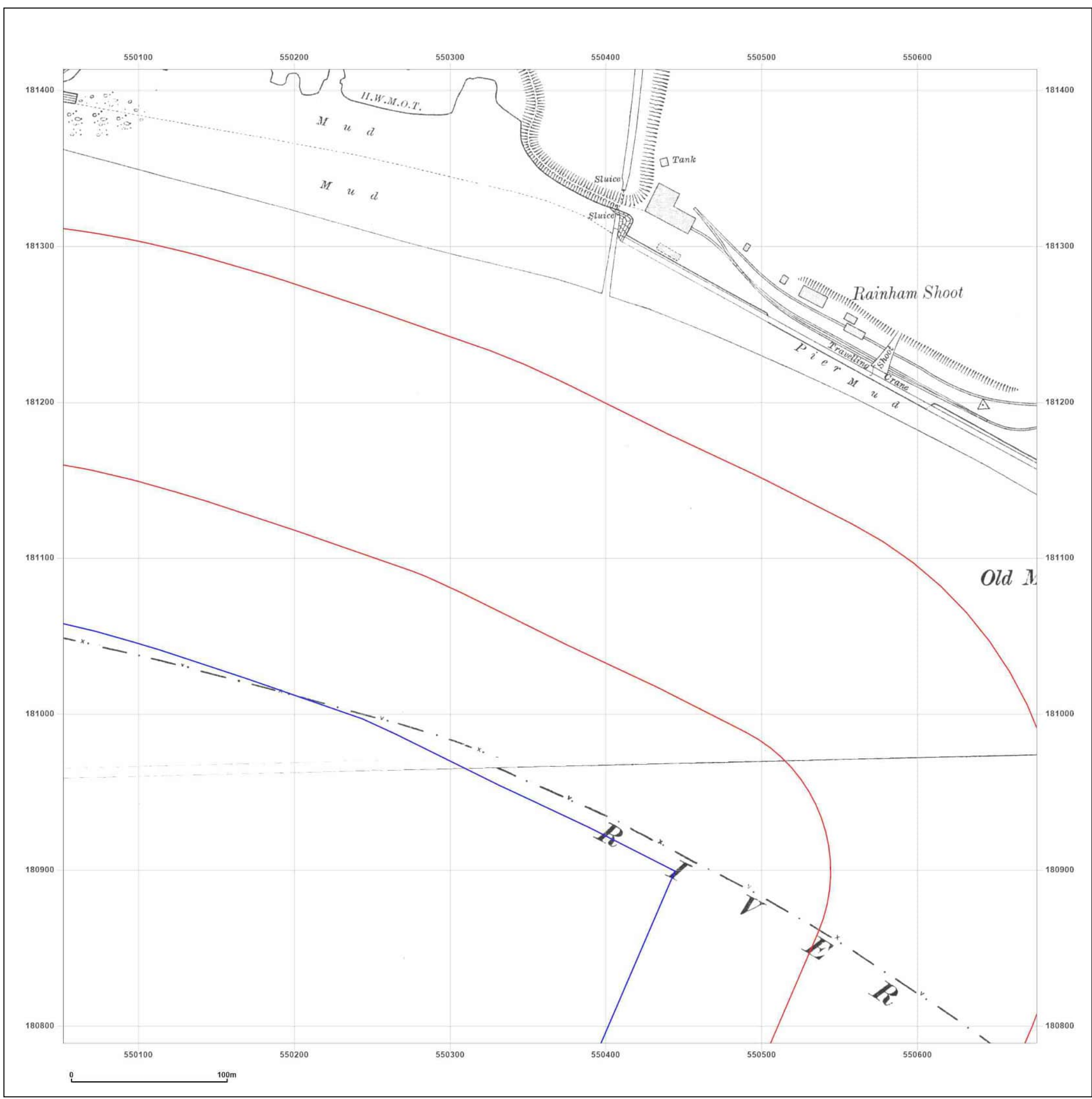


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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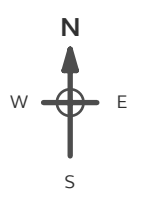
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Report Ref: GS-QCE-212-D95-XTT_LS_3_3
Grid Ref: 550364, 181101

Map Name: County Series

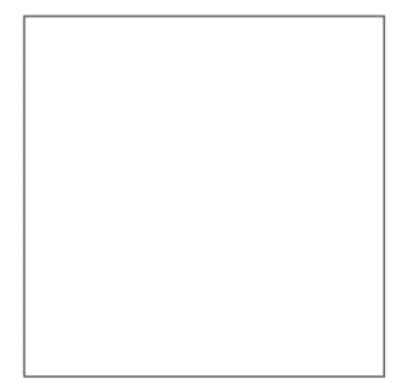
Map date: 1933

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1933
Revised 1933
Edition N/A
Copyright N/A
Levelled N/A

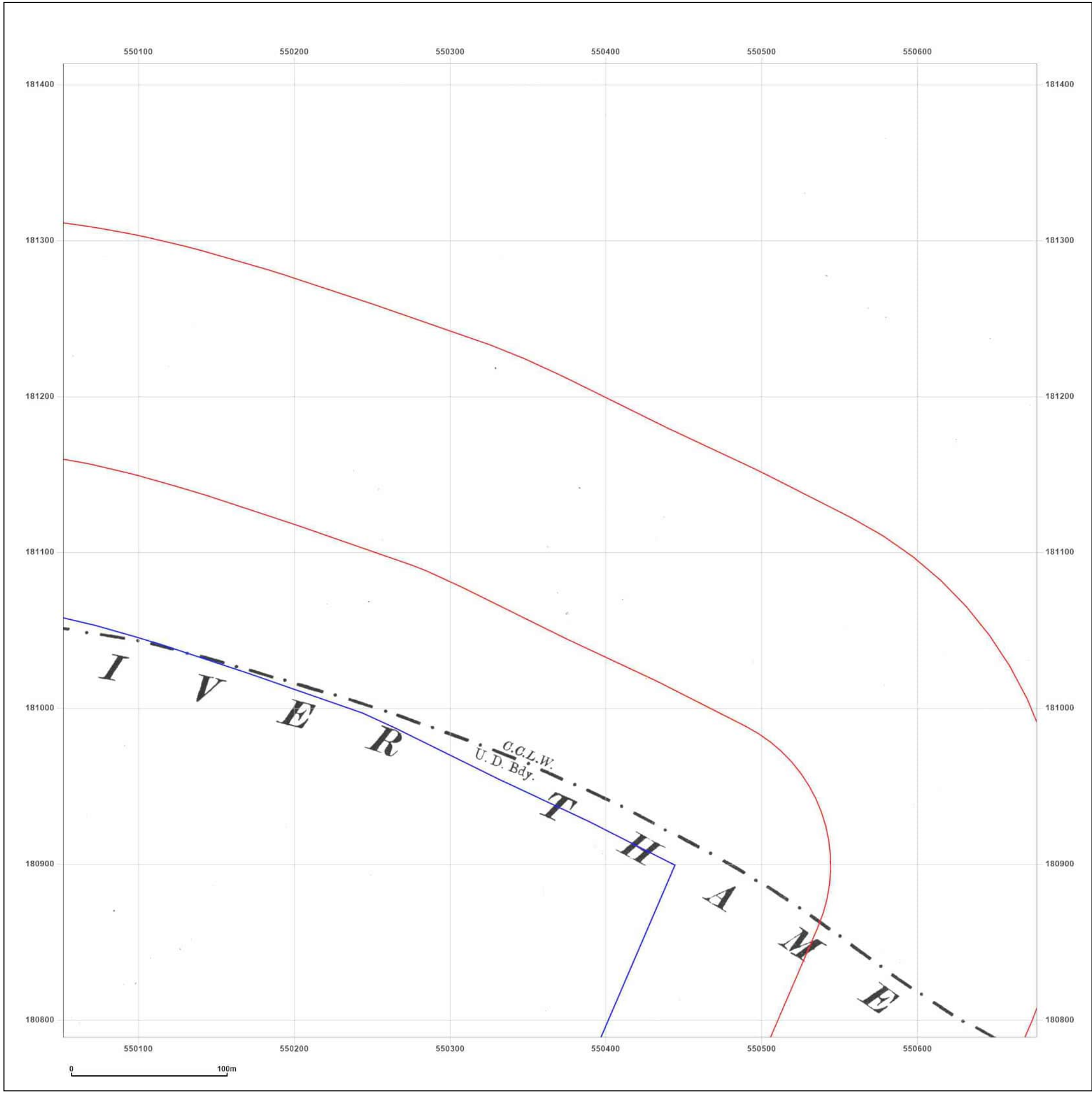


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Production date: 26 October 2023

Map legend available at:
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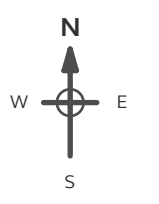


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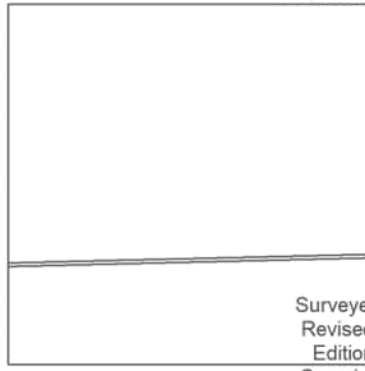
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Report Ref: GS-QCE-212-D95-XTT_LS_3_3
Grid Ref: 550364, 181101

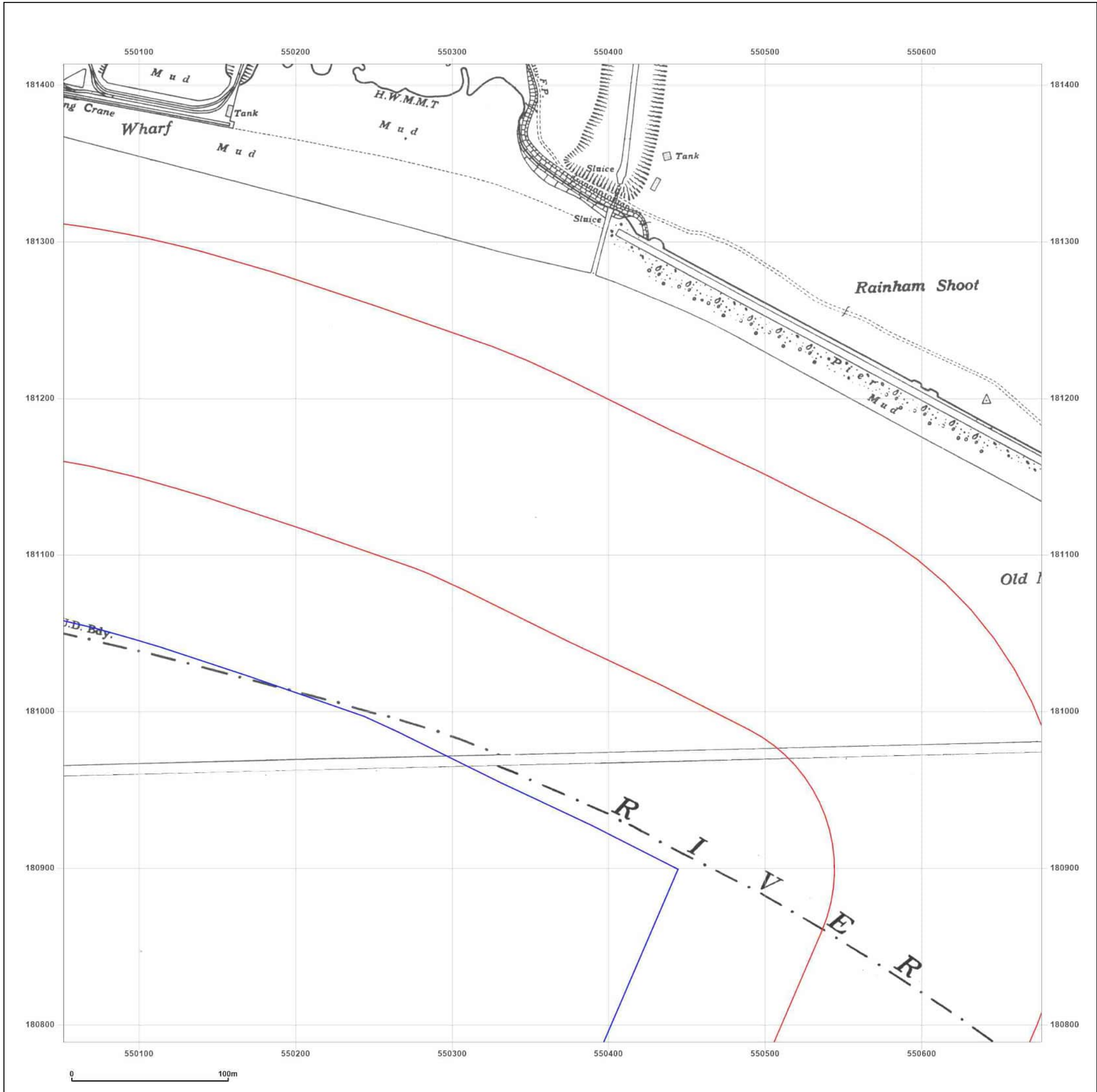
Map Name: County Series
Map date: 1939
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1939
Revised 1939
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1939
Revised 1939
Edition N/A
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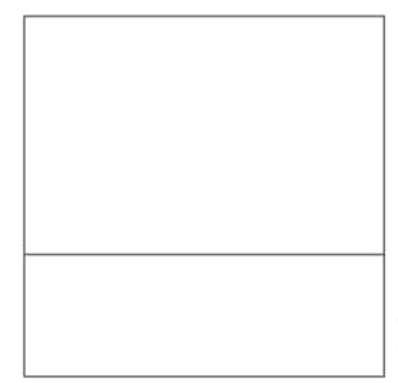
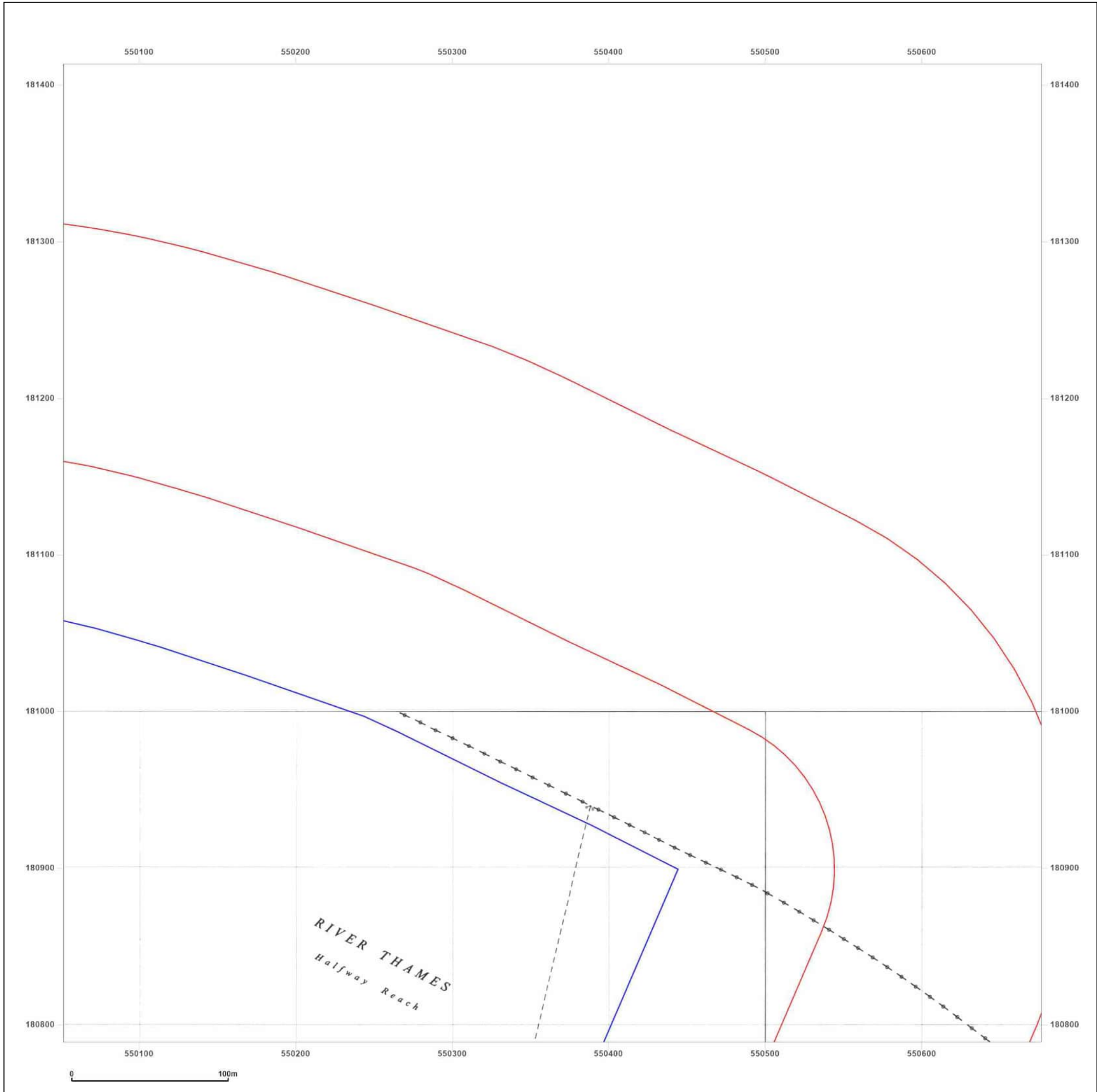
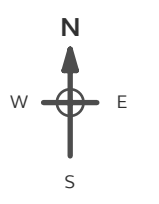
Map legend available at: [REDACTED]

Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_3_3
Grid Ref: 550364, 181101

Map Name: National Grid
Map date: 1963
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1963
Revised 1963
Edition 1966
Copyright 1966
Levelled 1961



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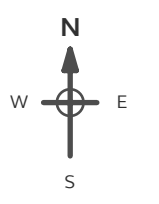
Map legend available at:
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Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_LS_3_3
Grid Ref: 550364, 181101


Map Name: National Grid
Map date: 1963-1966
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1963
Revised 1963
Edition 1964
Copyright 1964
Levelled 1961

Surveyed 1963
Revised N/A
Edition 1966
Copyright N/A
Levelled N/A

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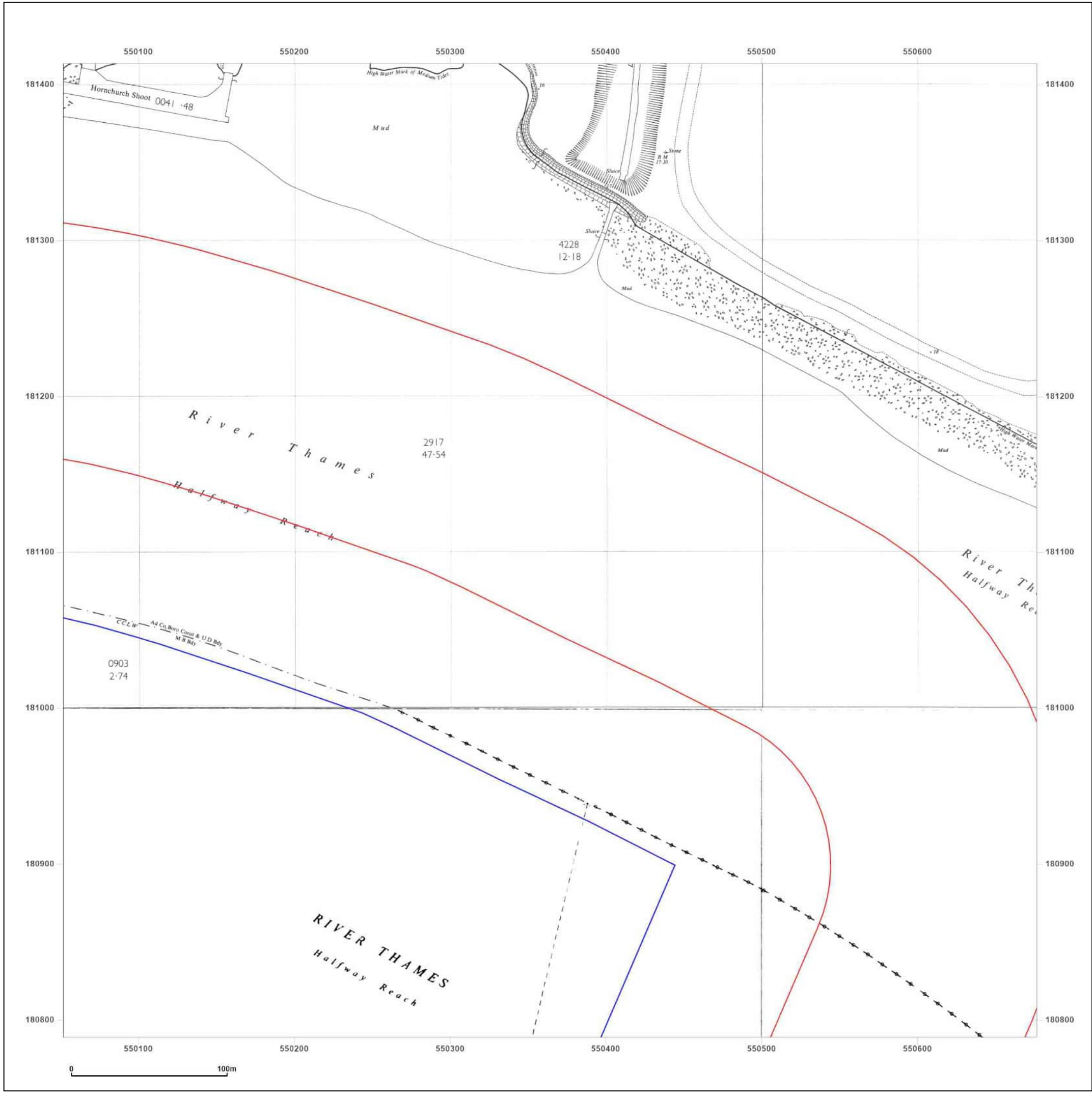


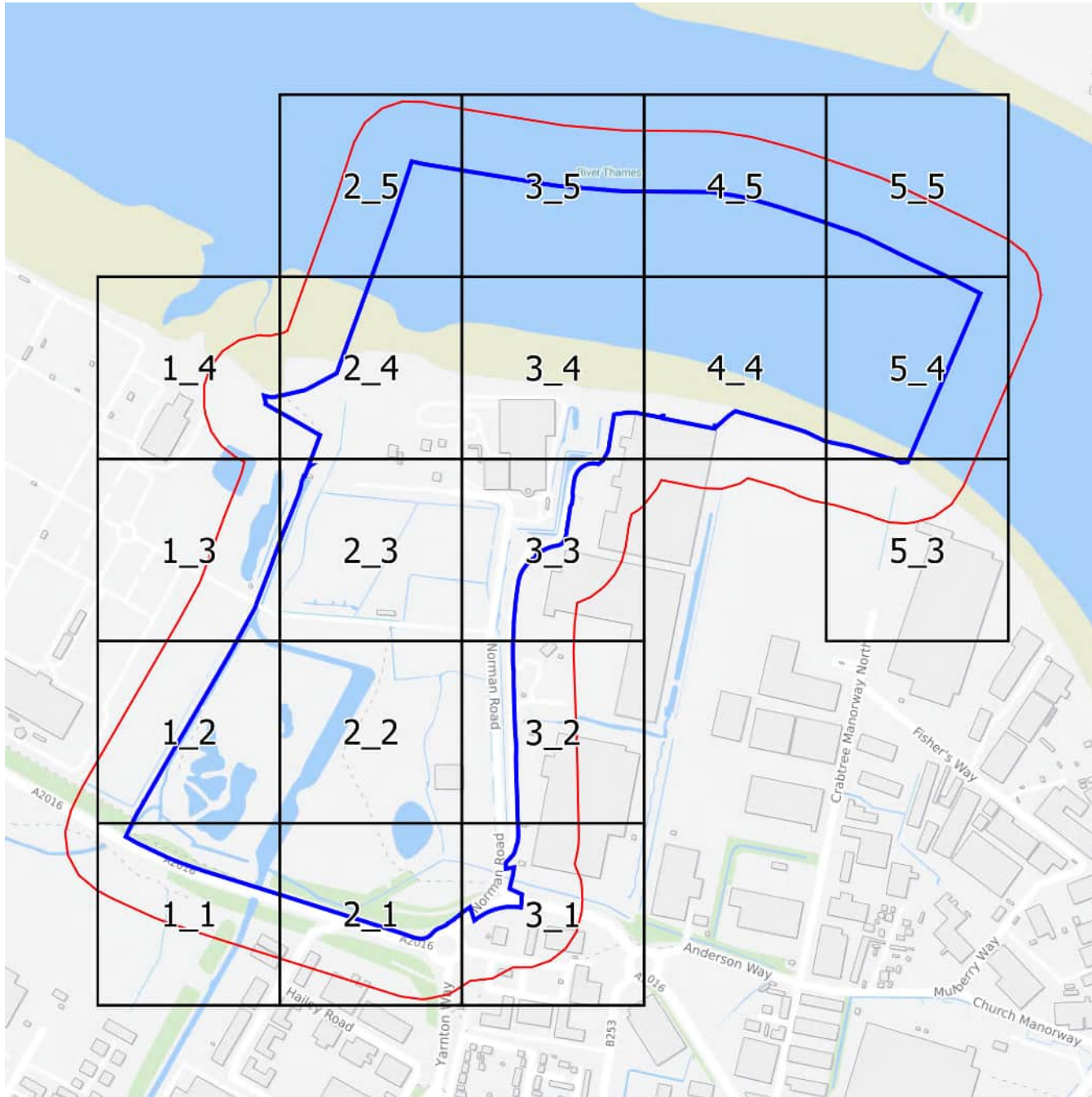
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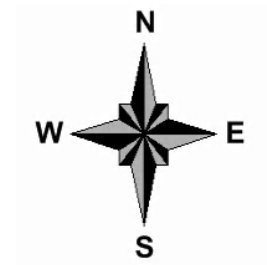
Production date: 26 October 2023

Map legend available at: [REDACTED]





Landline Scale Grid Index

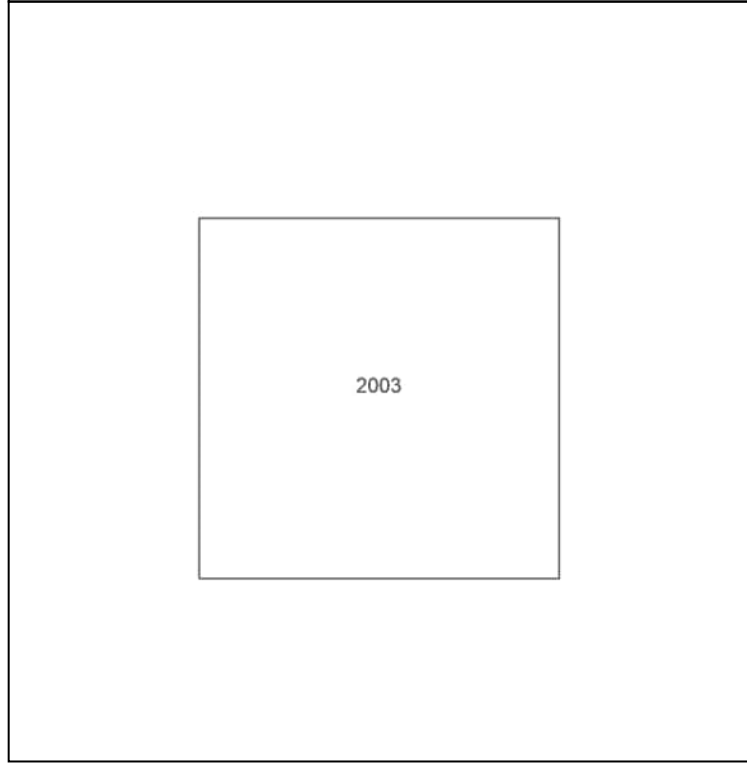
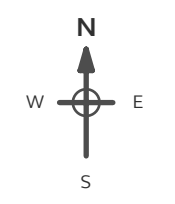


Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_Landline_1_1
Grid Ref: 549140, 179876

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250



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Production date: 26 October 2023

Map legend available at: [REDACTED]

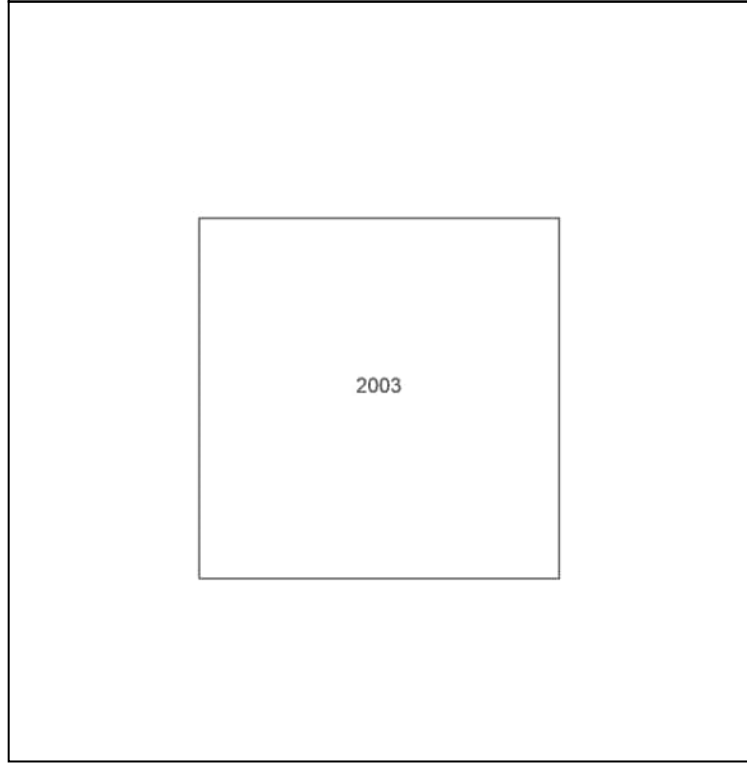
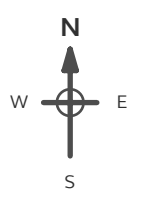


Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_Landline_1_2
Grid Ref: 549140, 180176

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

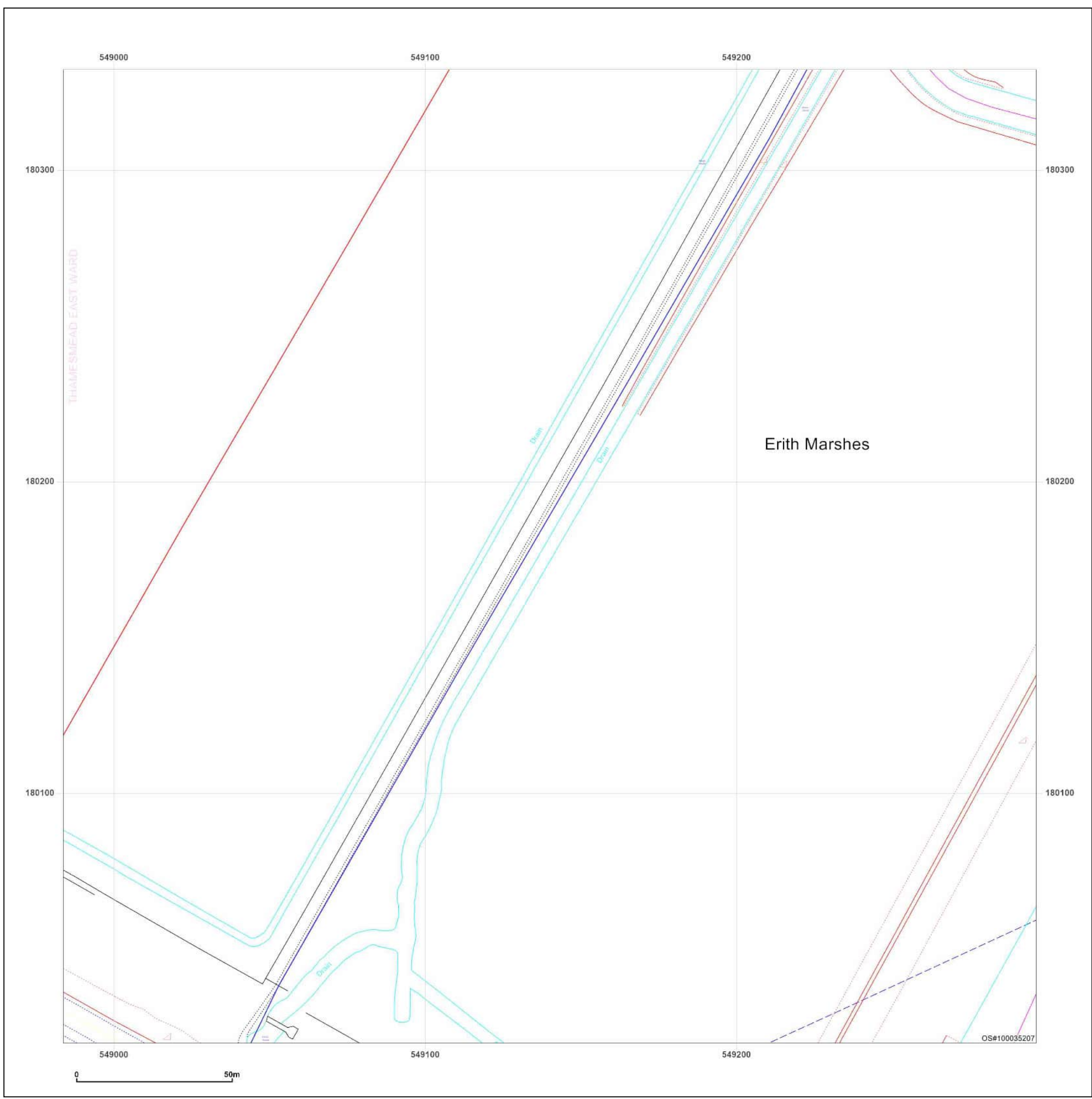


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Production date: 26 October 2023

Map legend available at: 

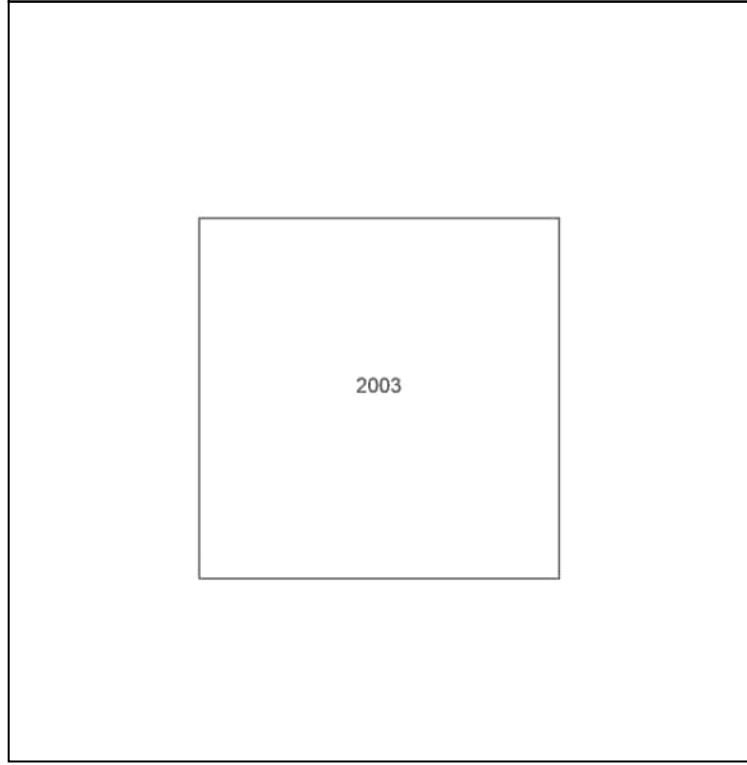
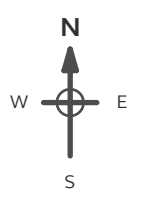


Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_Landline_1_3
Grid Ref: 549140, 180476

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

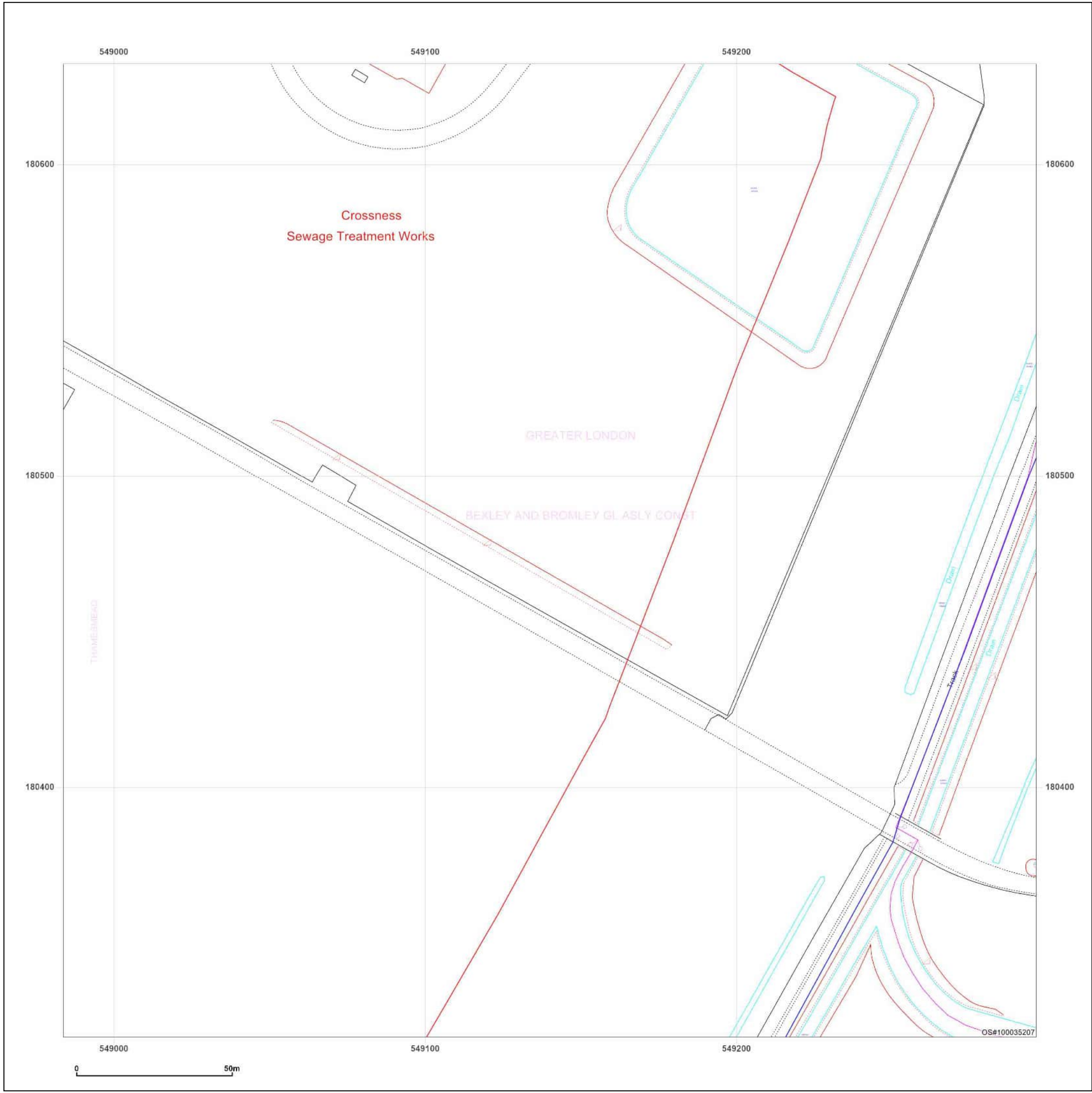


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Production date: 26 October 2023

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Site Details:

549656.6233563919,180548.34
620791927

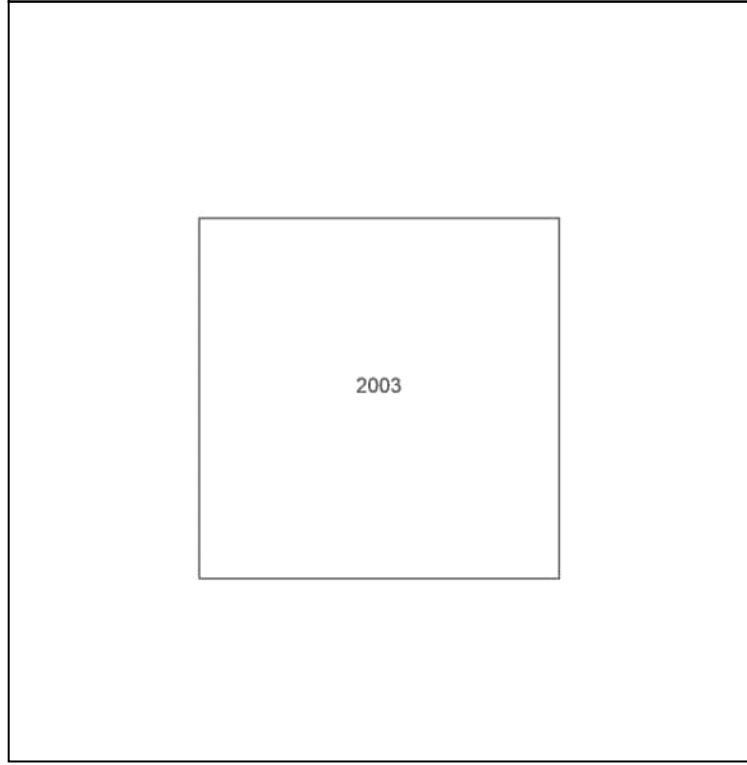
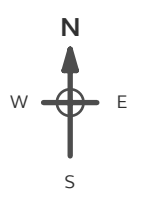
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Report Ref: GS-QCE-212-D95-XTT_Landline_1_4
Grid Ref: 549140, 180776

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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Map legend available at: [REDACTED]

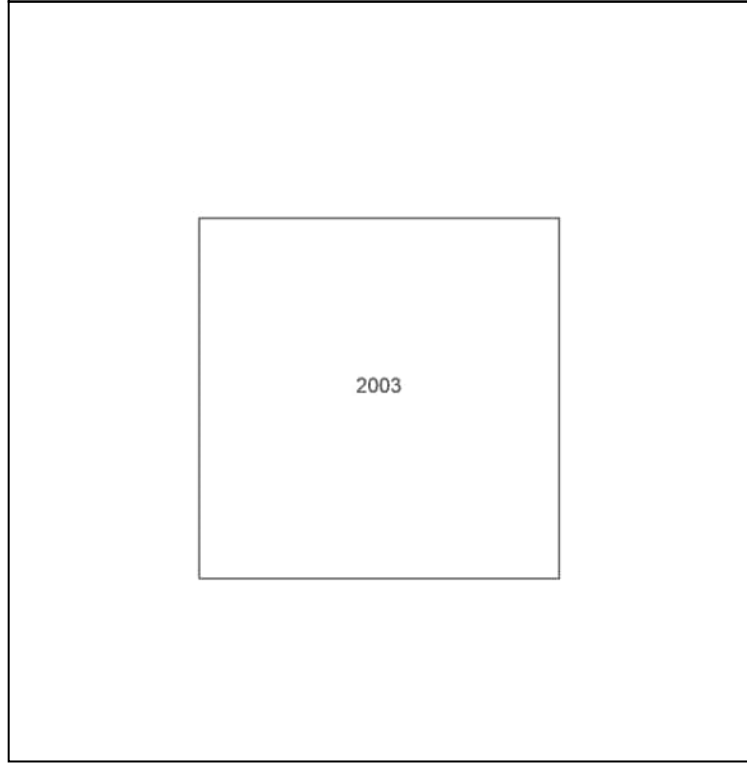
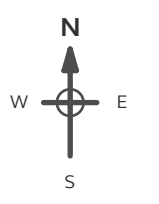


Site Details:

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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_Landline_2_1
Grid Ref: 549440, 179876

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

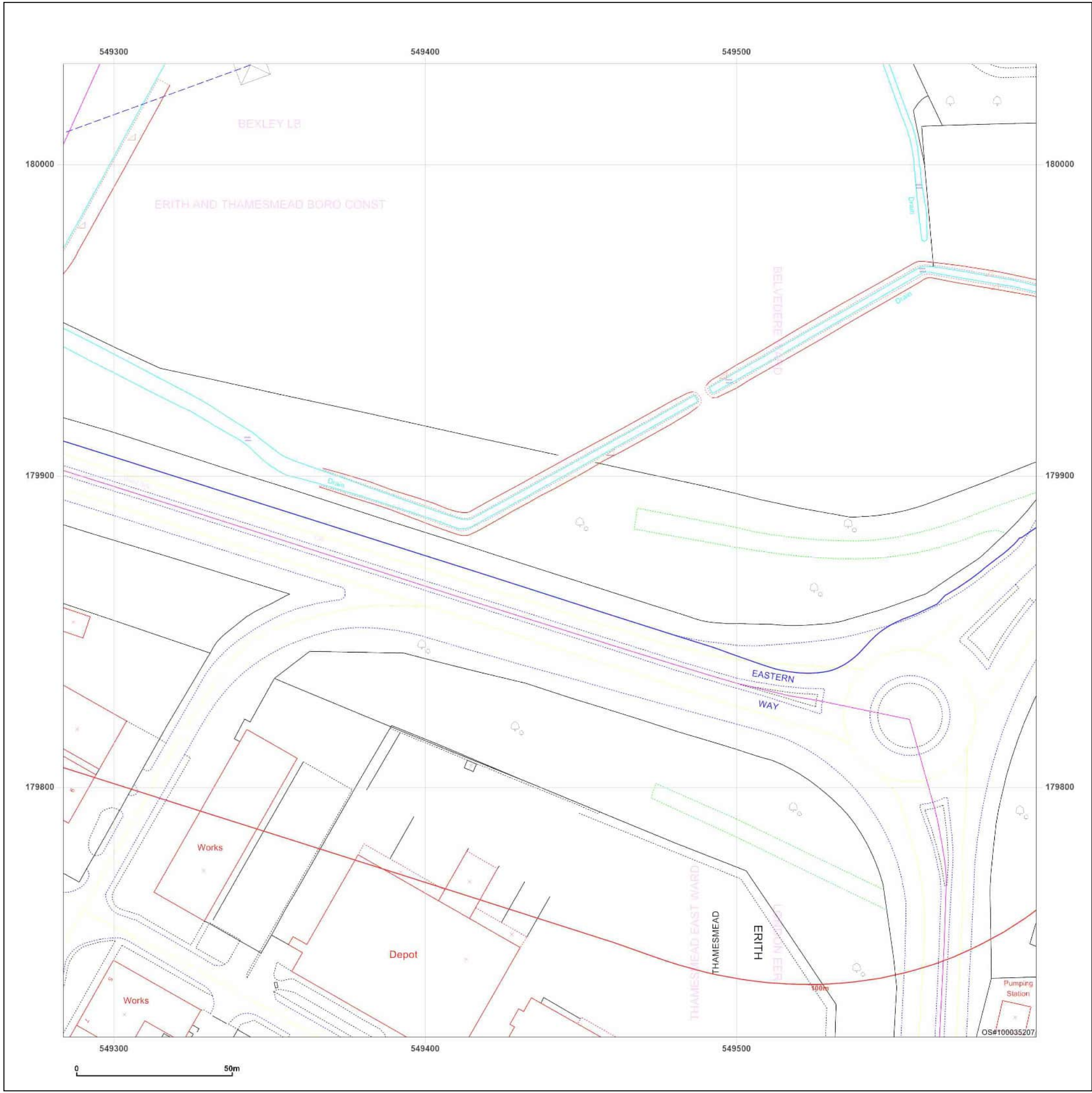


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Site Details:

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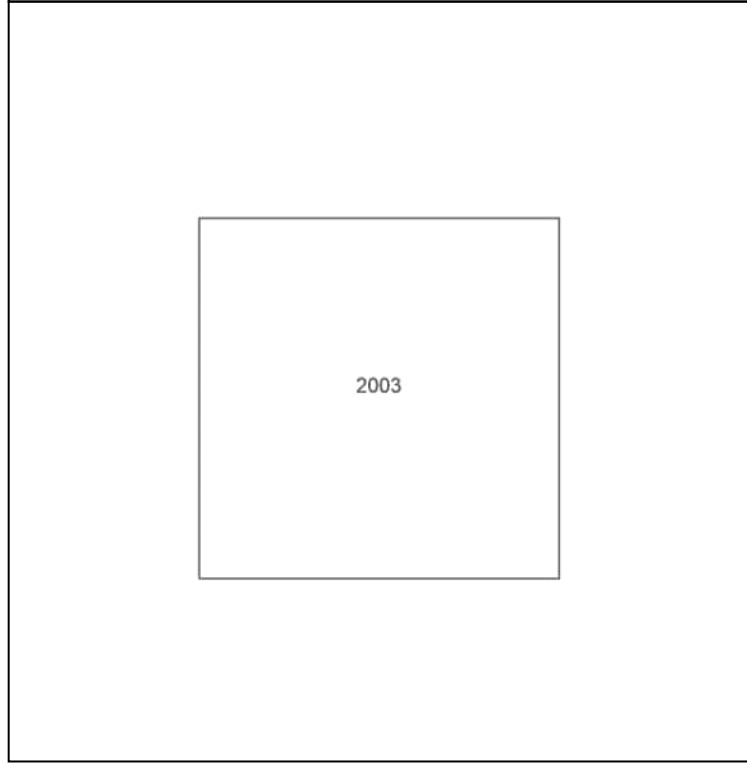
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Report Ref: GS-QCE-212-D95-XTT_Landline_2_2
Grid Ref: 549440, 180176

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

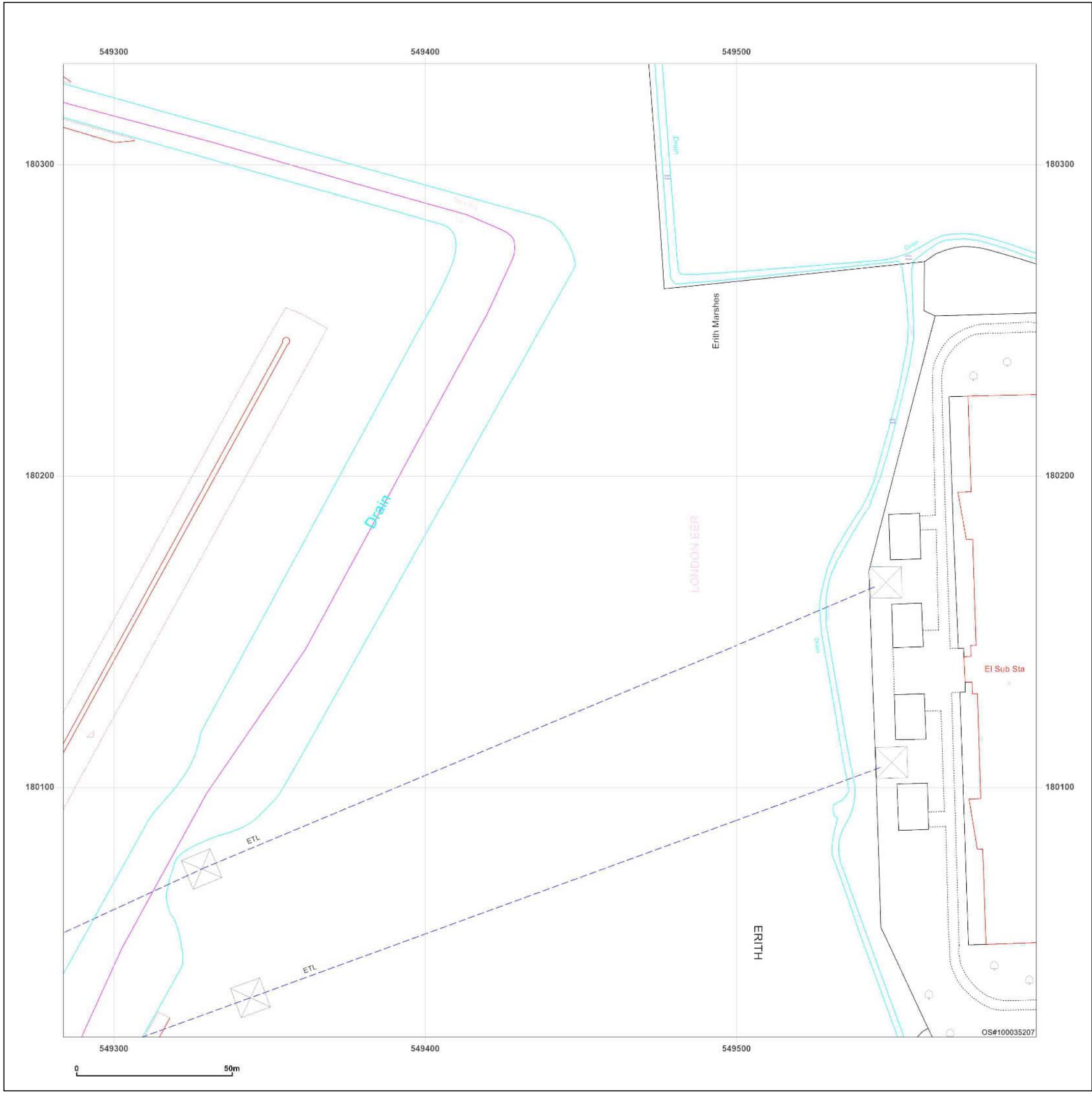


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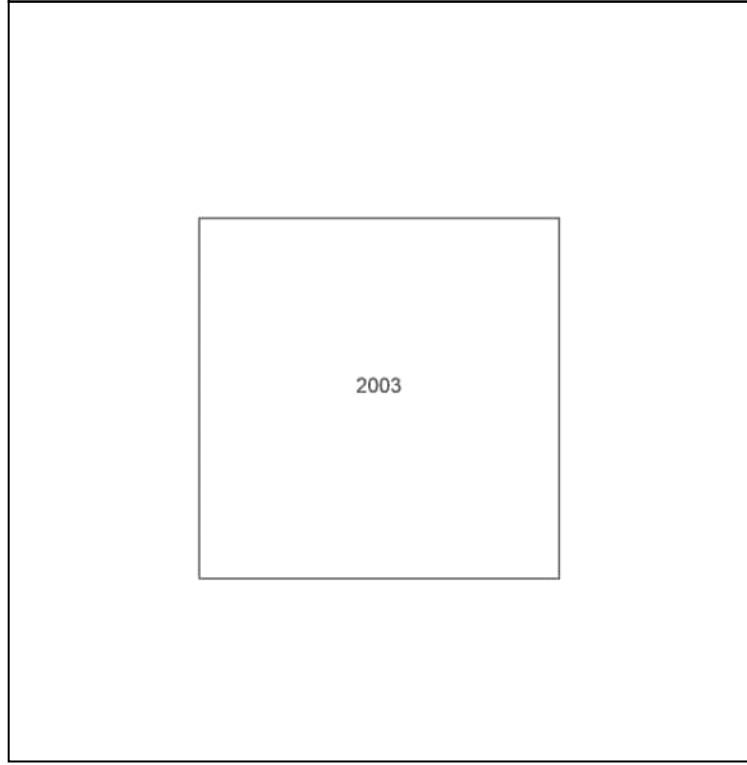
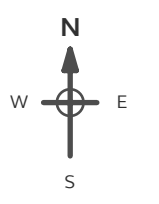


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Report Ref: GS-QCE-212-D95-XTT_Landline_2_3
Grid Ref: 549440, 180476

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

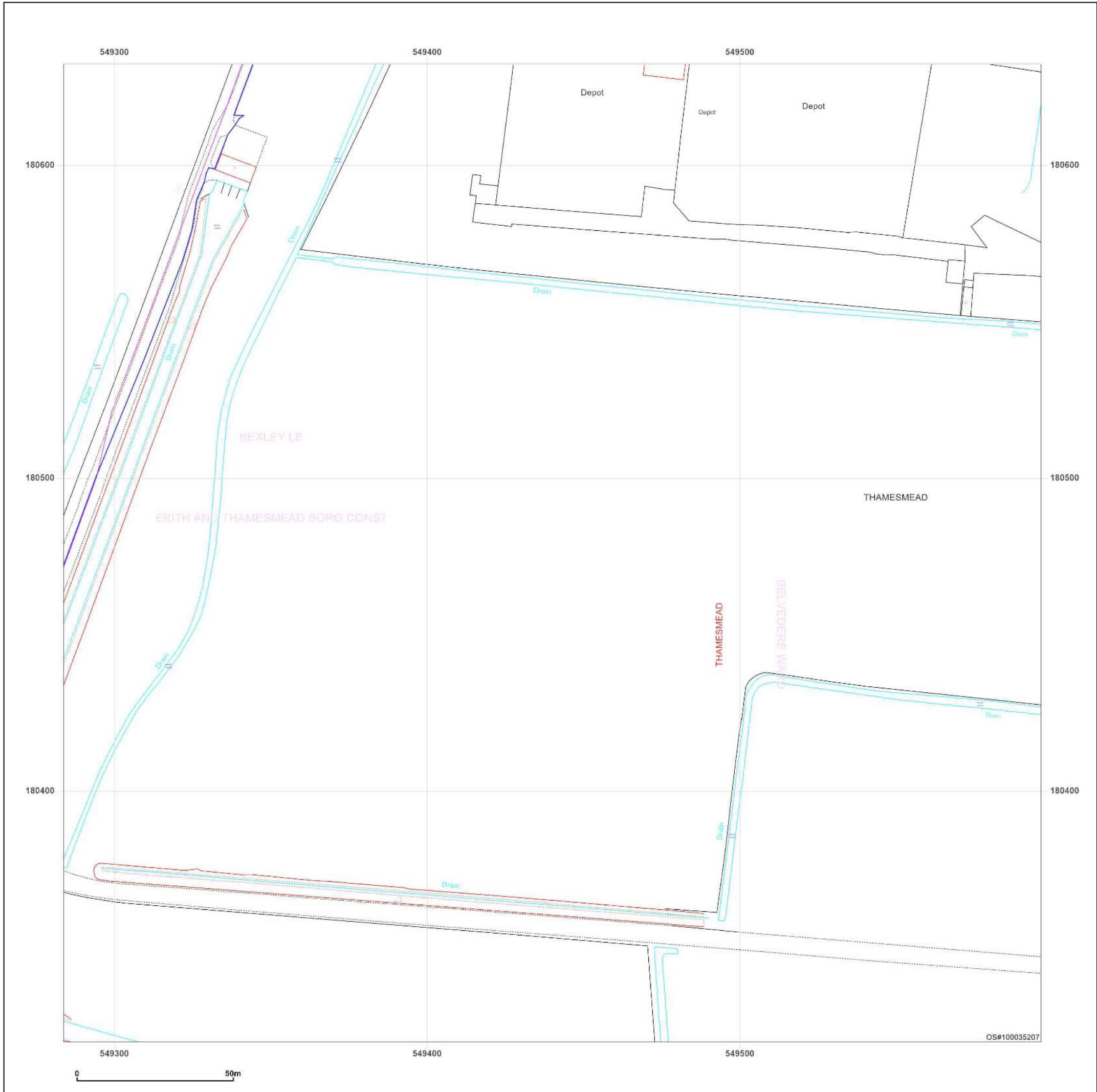


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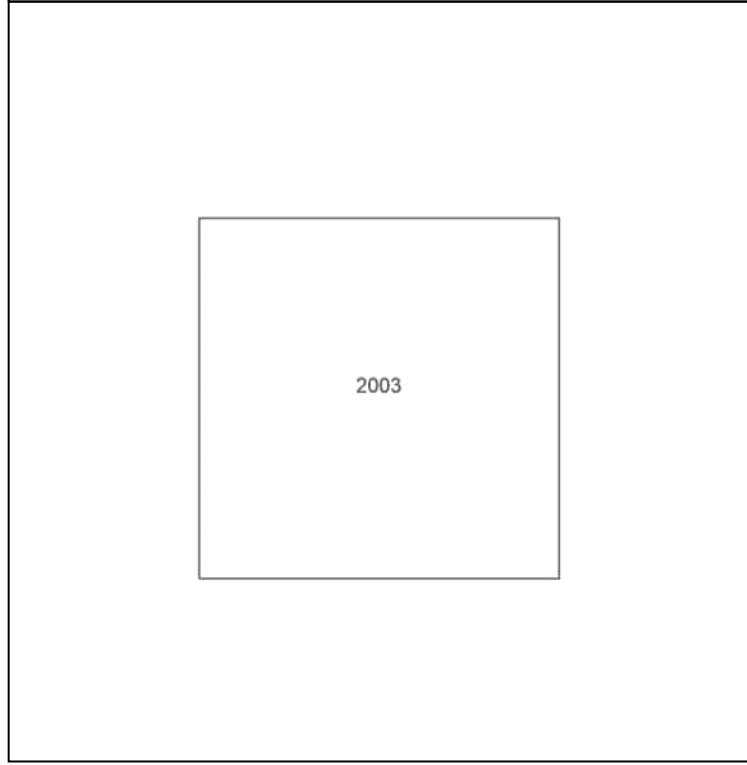
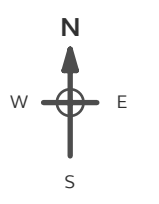


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Grid Ref: 549440, 180776

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250



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Production date: 26 October 2023

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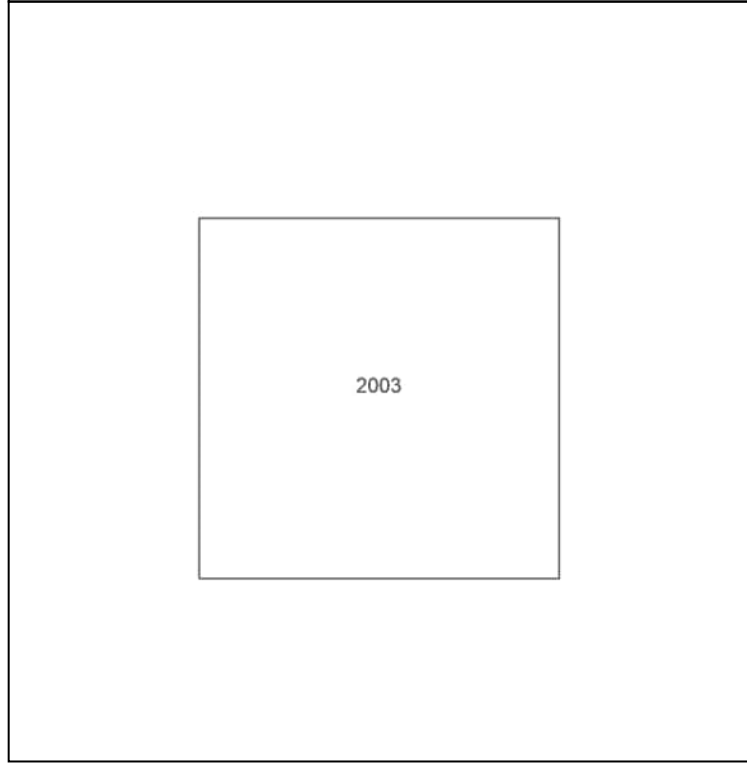
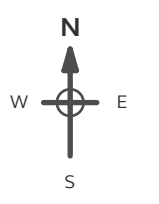



Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_Landline_2_5
Grid Ref: 549440, 181076

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250

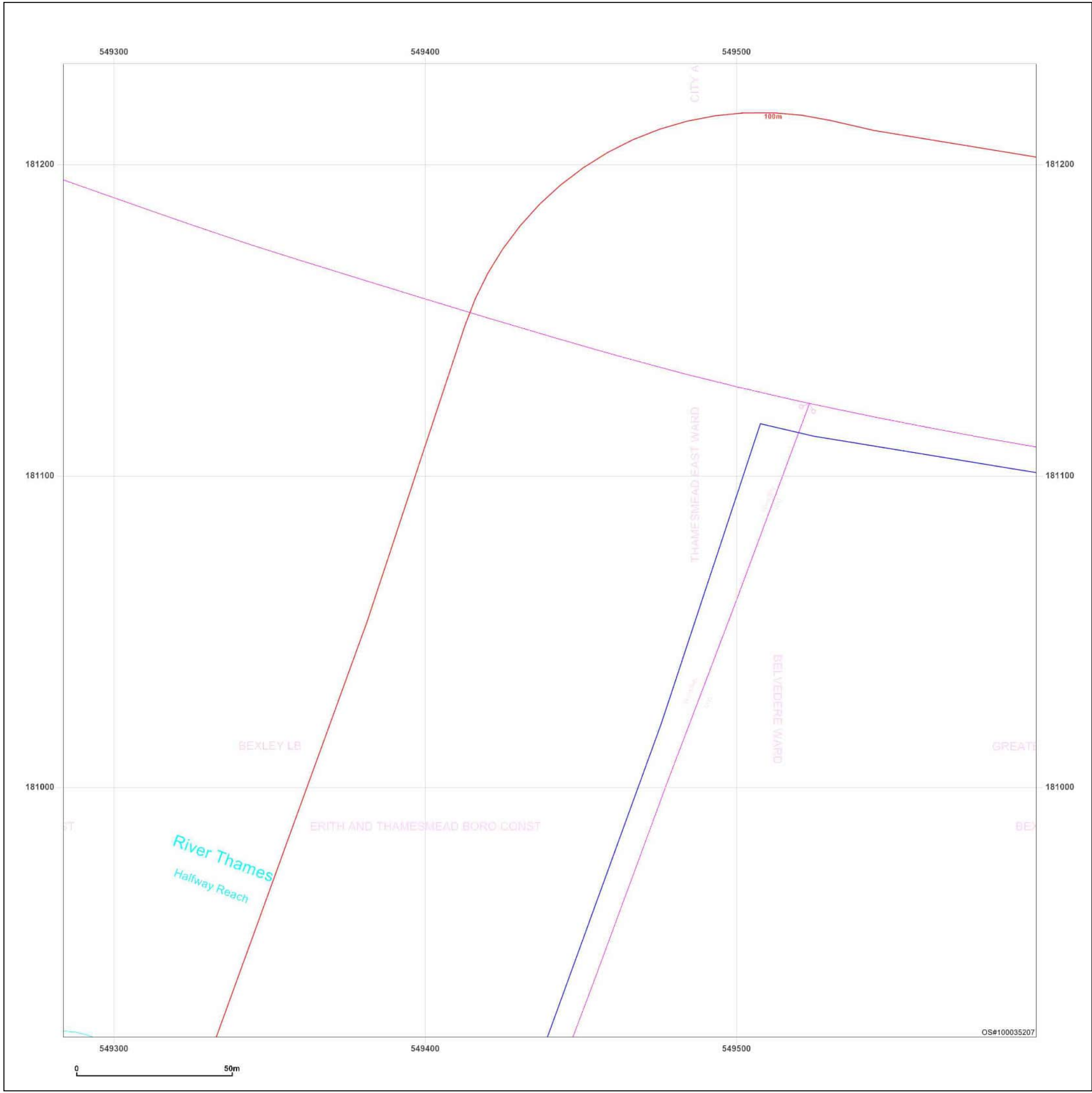


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Production date: 26 October 2023

Map legend available at: [REDACTED]

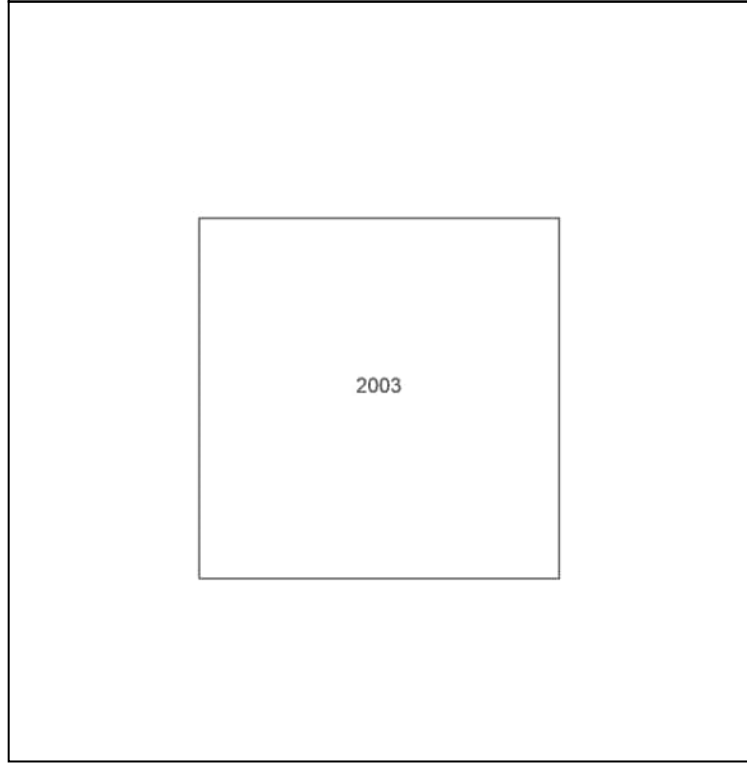
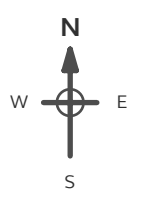


Site Details:

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Report Ref: GS-QCE-212-D95-XTT_Landline_3_1
Grid Ref: 549740, 179876

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250



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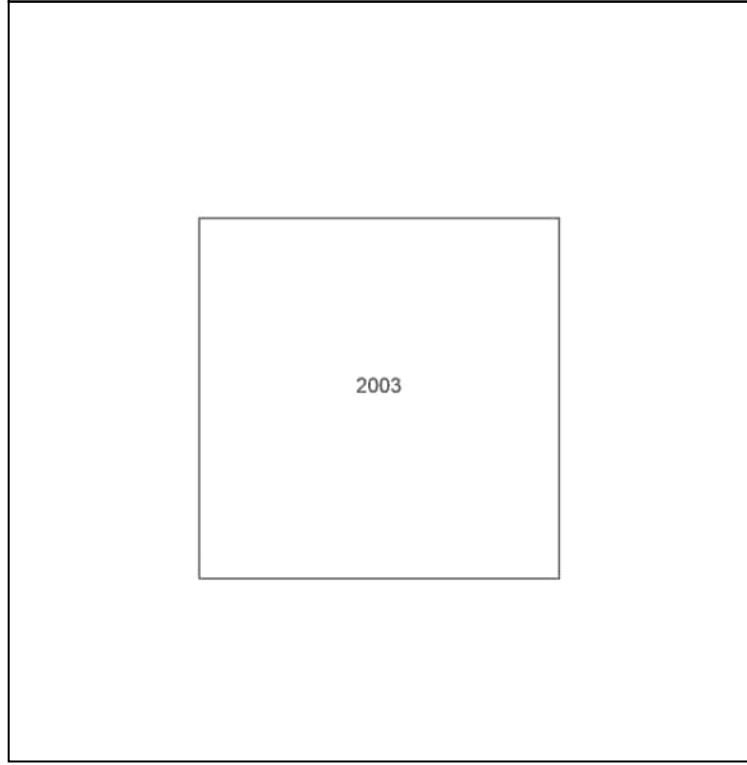
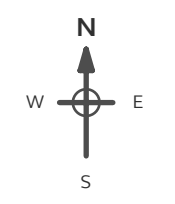


Site Details:

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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_Landline_3_2
Grid Ref: 549740, 180176

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250



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Production date: 26 October 2023

Map legend available at: [REDACTED]

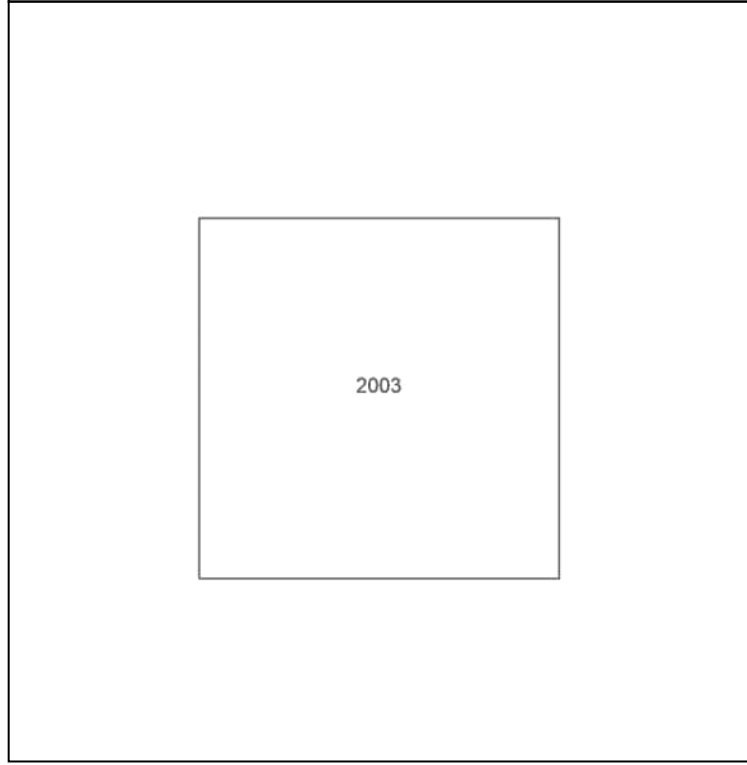
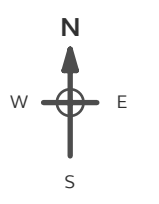



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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_Landline_3_3
Grid Ref: 549740, 180476

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250



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620791927

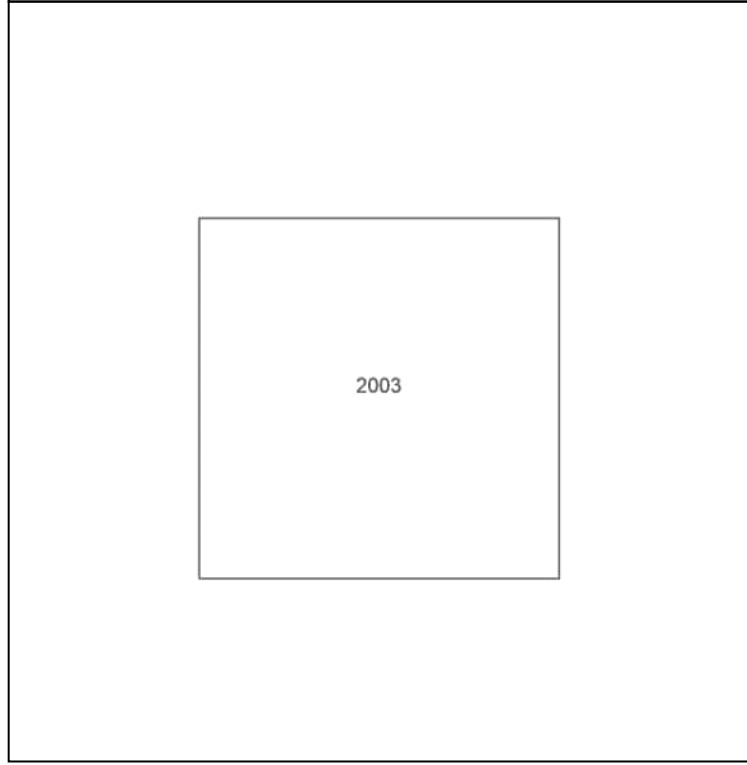
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Report Ref: GS-QCE-212-D95-XTT_Landline_3_4
Grid Ref: 549740, 180776

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

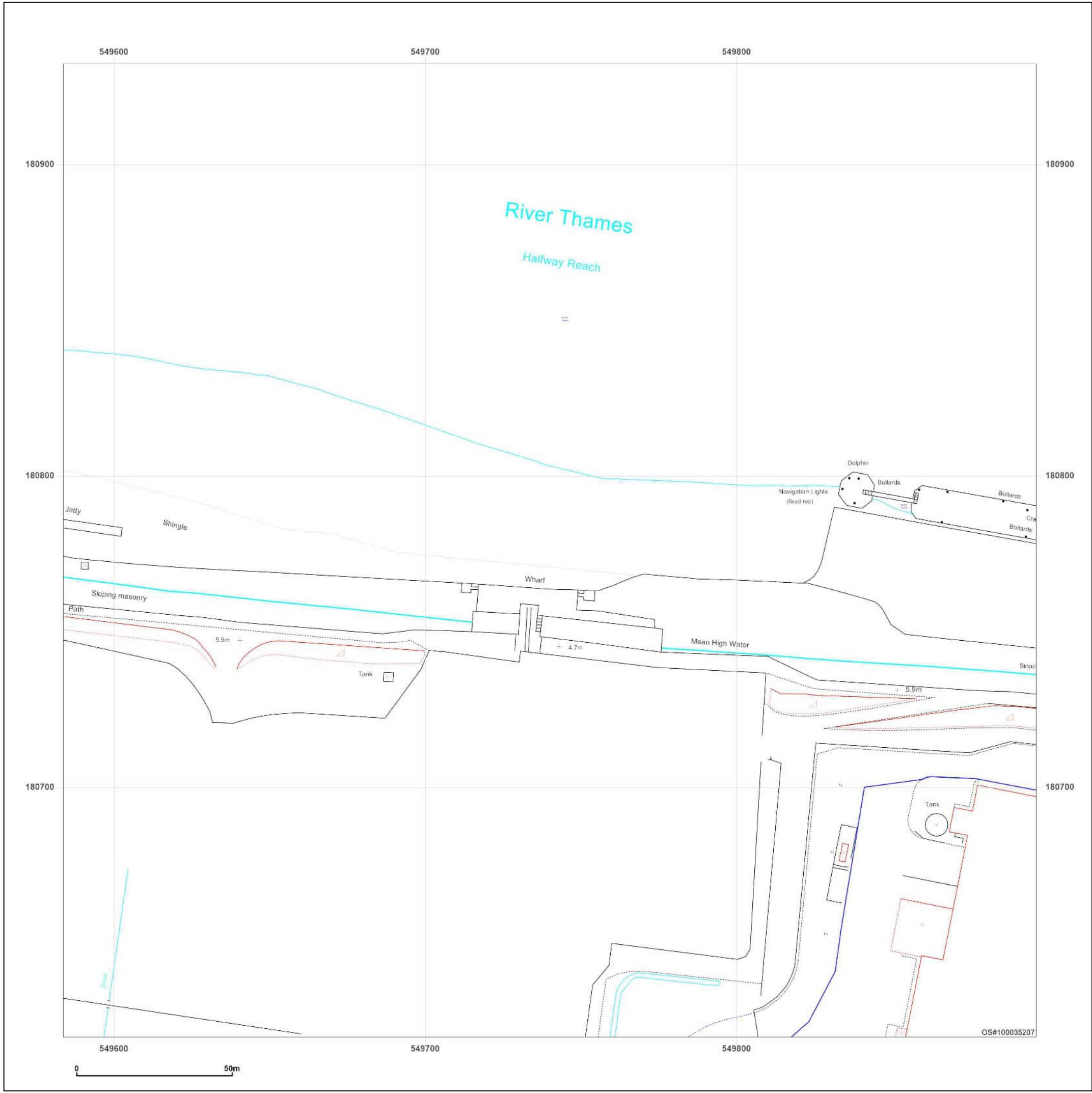


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Production date: 26 October 2023

Map legend available at: [REDACTED]



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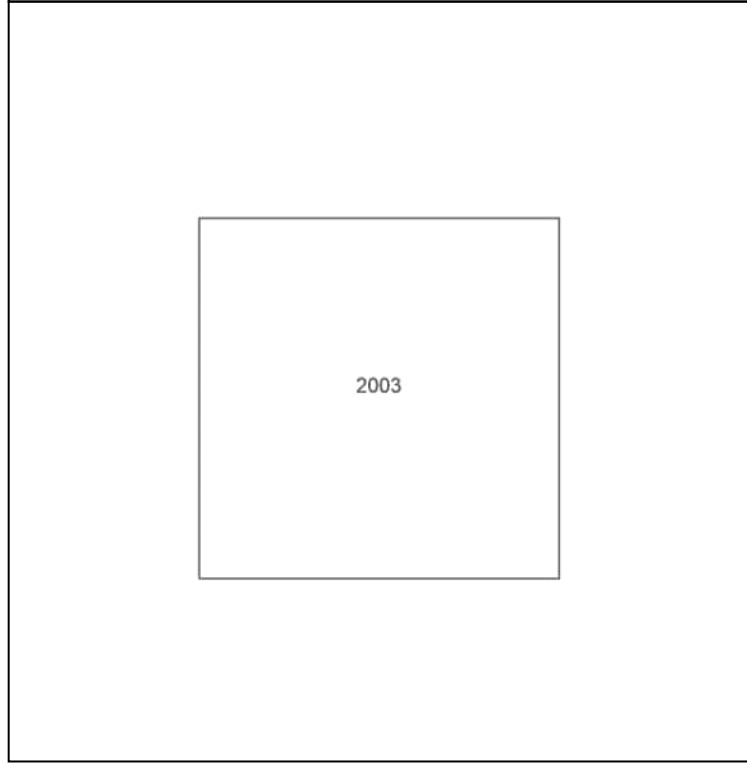
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Grid Ref: 549740, 181076

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

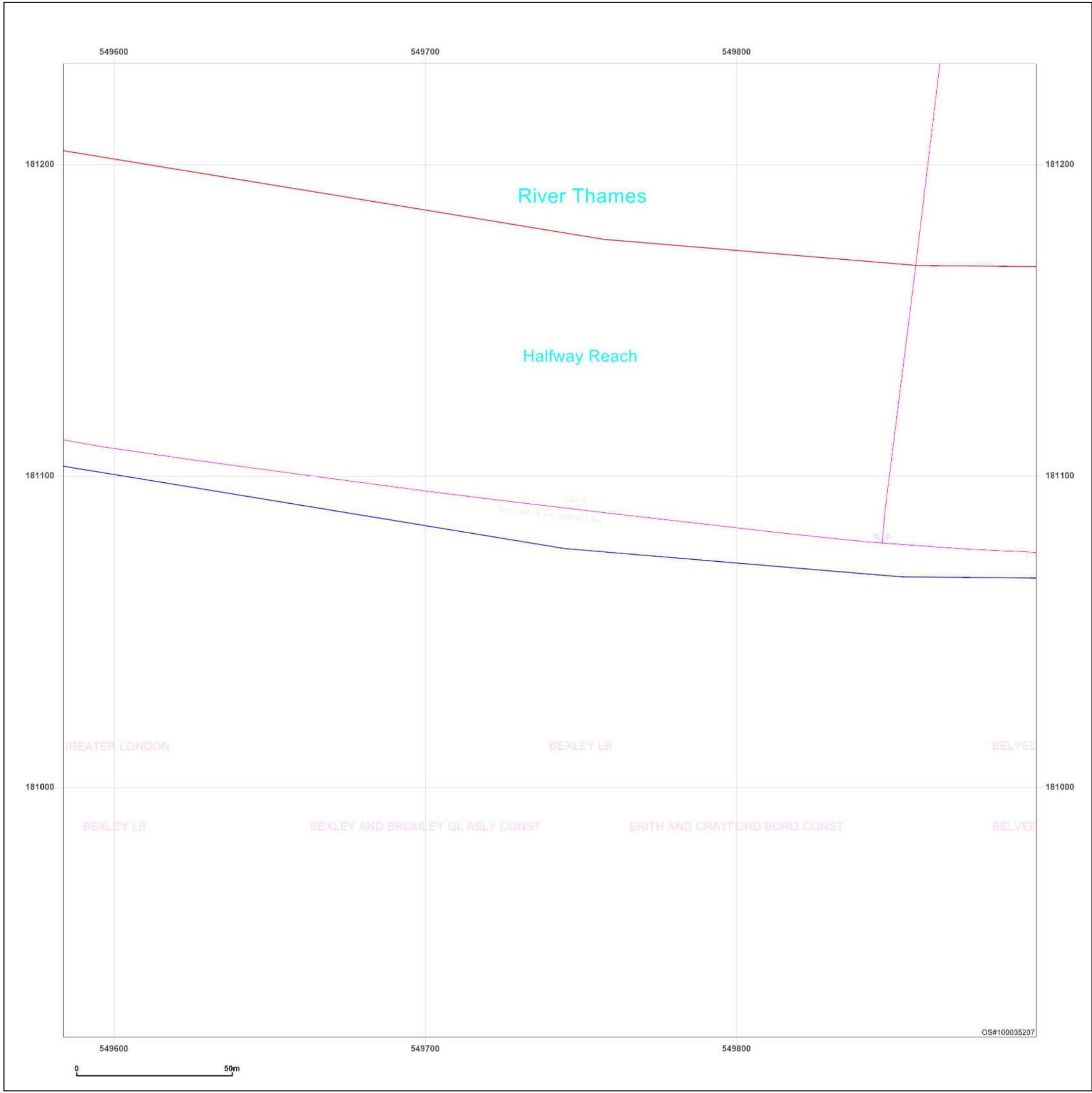


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Production date: 26 October 2023

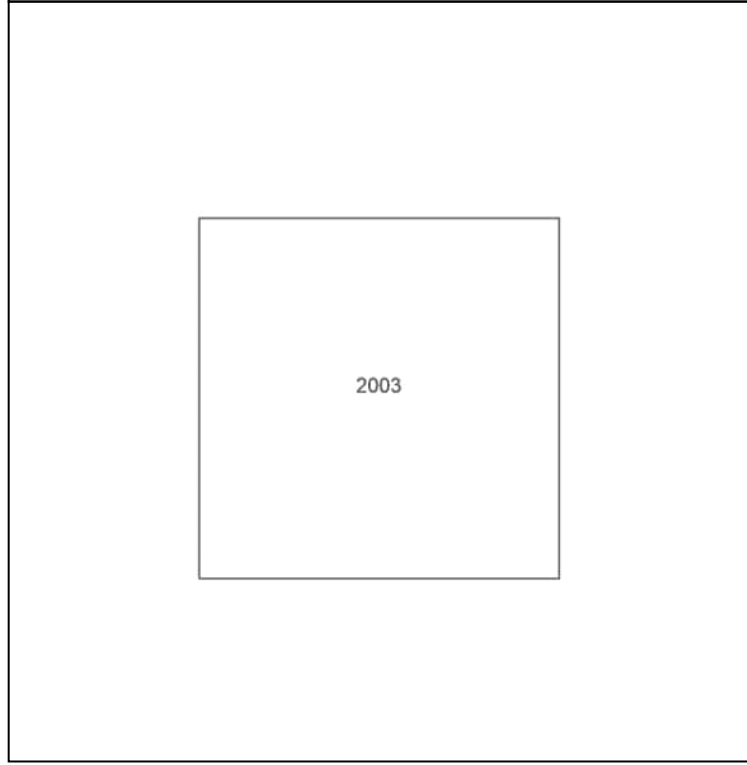
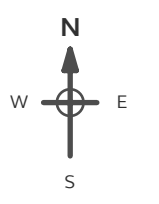
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Site Details:
 549656.6233563919,180548.34
 620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_Landline_4_4
Grid Ref: 550040, 180776

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250



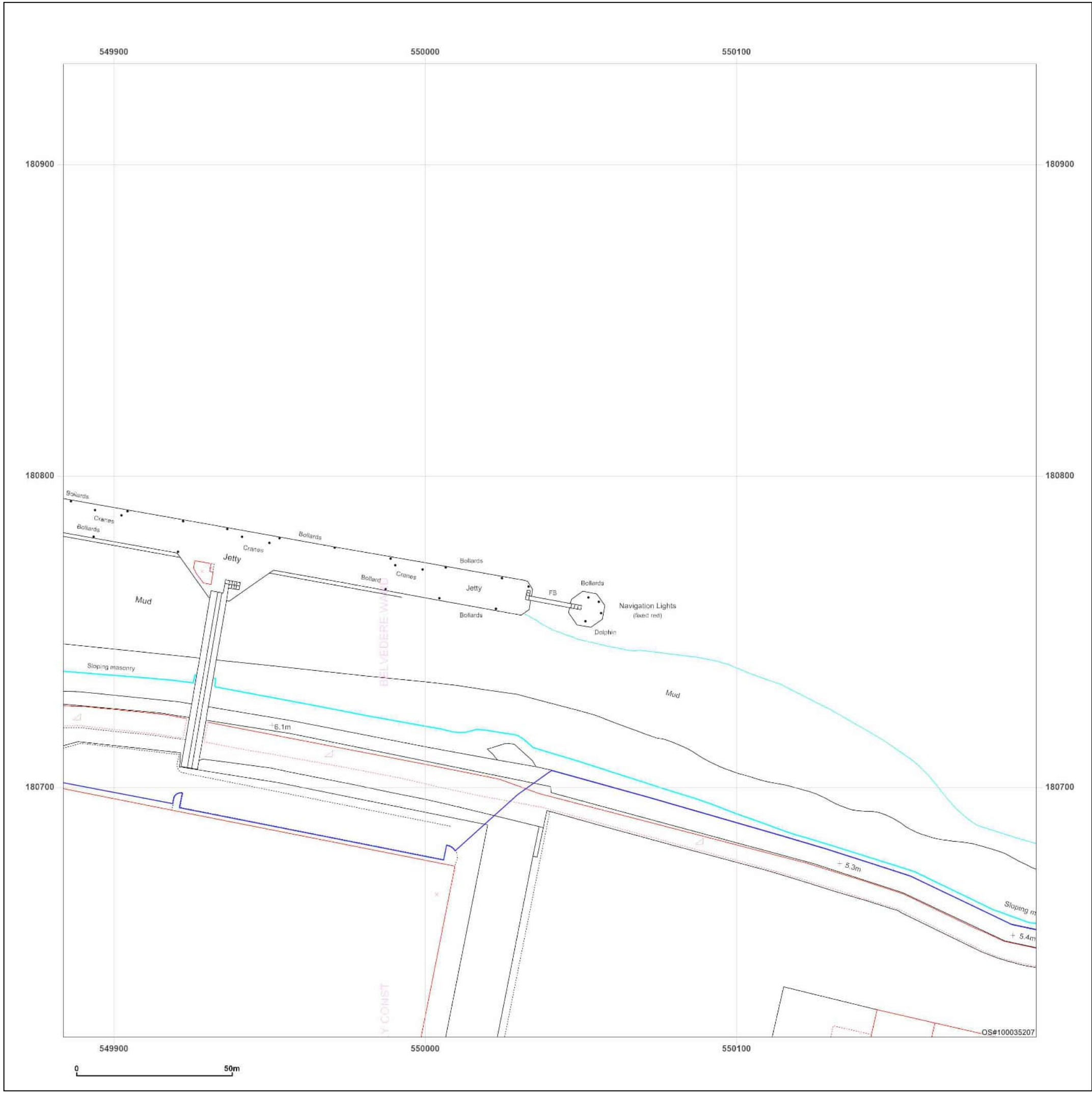
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Production date: 26 October 2023

Map legend available at:
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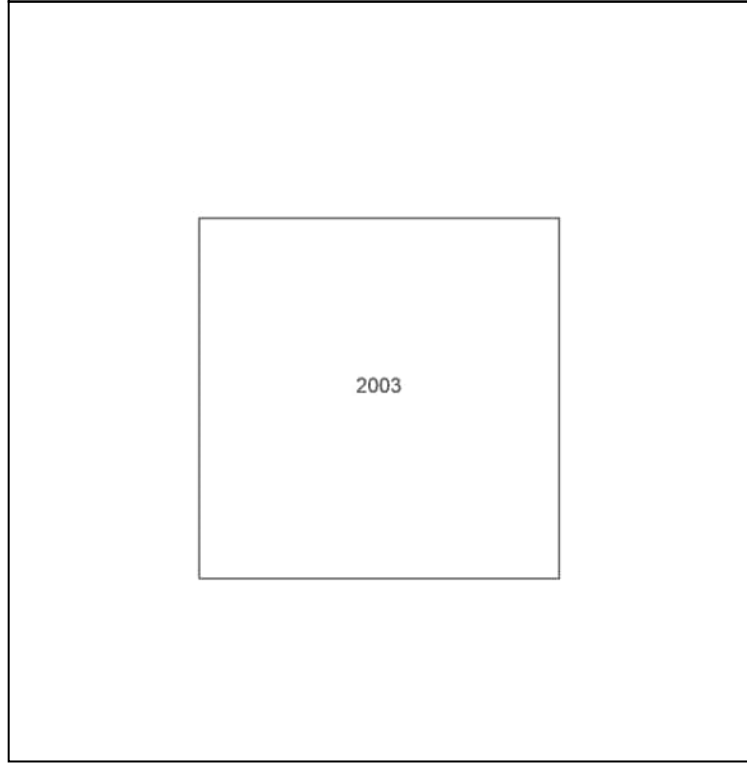
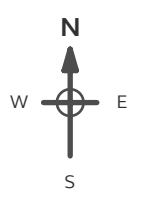
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Report Ref: GS-QCE-212-D95-XTT_Landline_4_5
Grid Ref: 550040, 181076

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

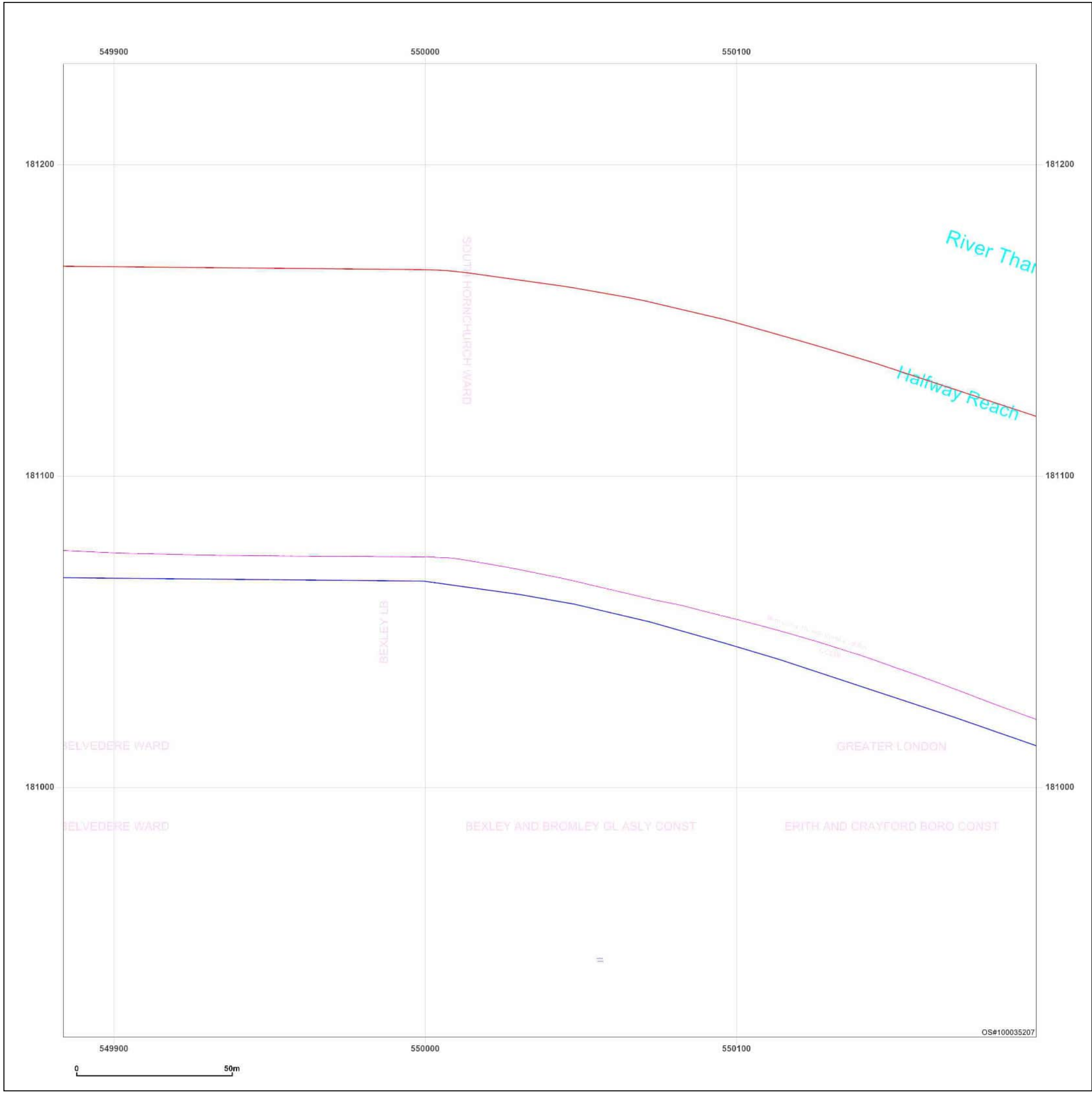


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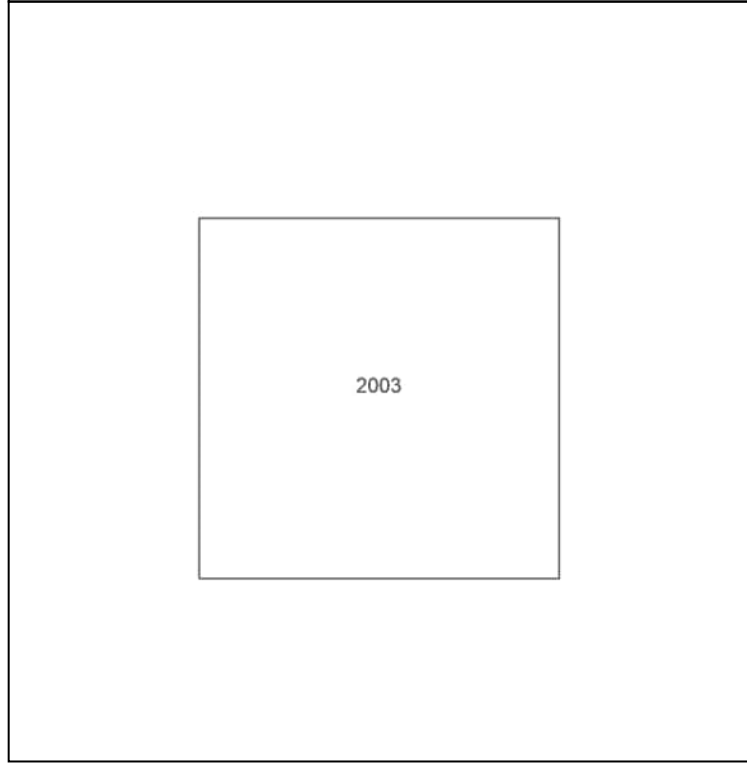
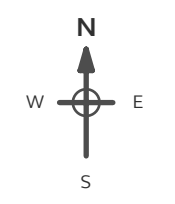


Site Details:

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Report Ref: GS-QCE-212-D95-XTT_Landline_5_3
Grid Ref: 550340, 180476

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250



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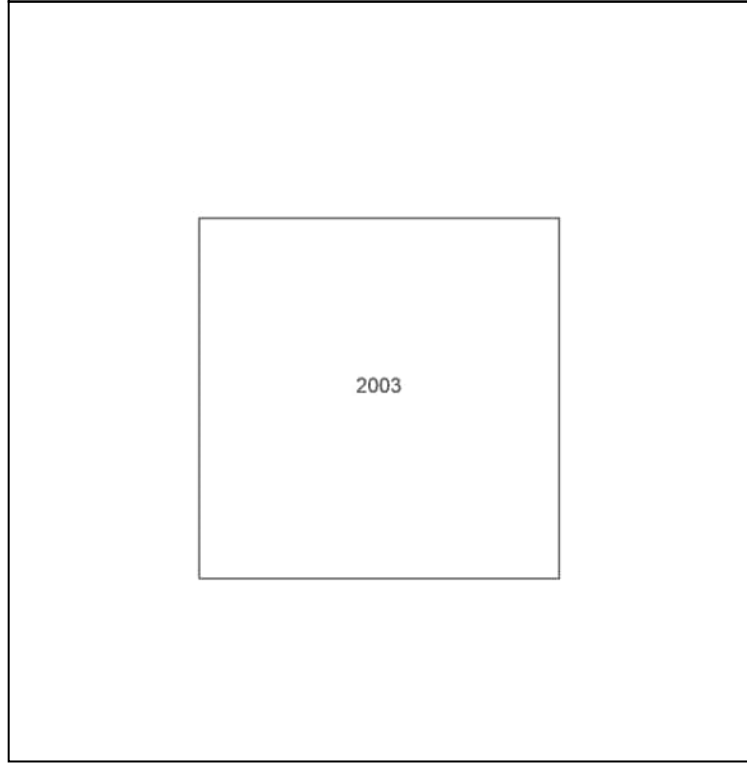
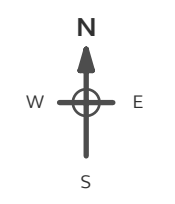



Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_Landline_5_4
Grid Ref: 550340, 180776

Map Name: LandLine
Map date: 2003
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Printed at: 1:1,250

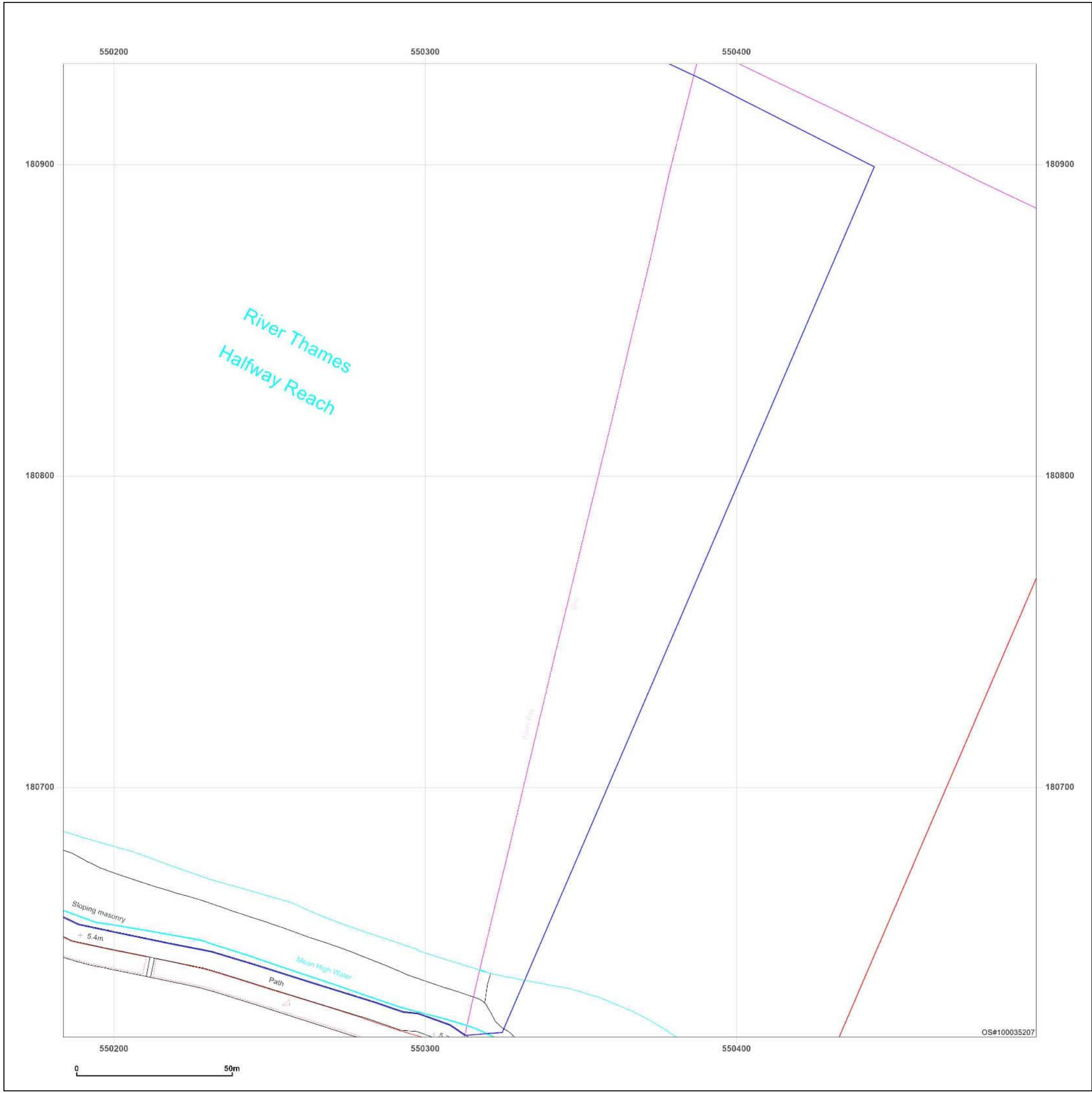


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Production date: 26 October 2023

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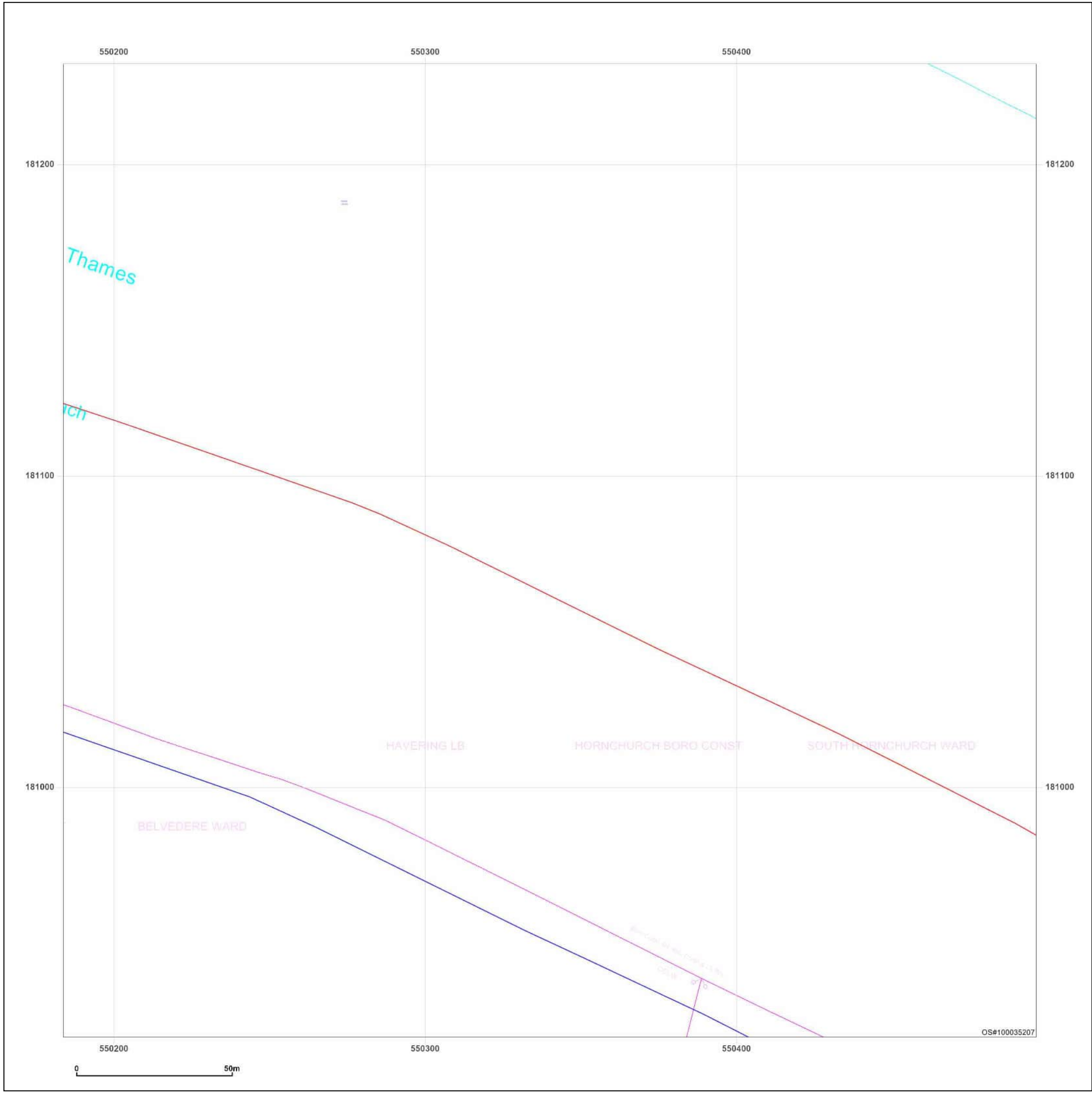
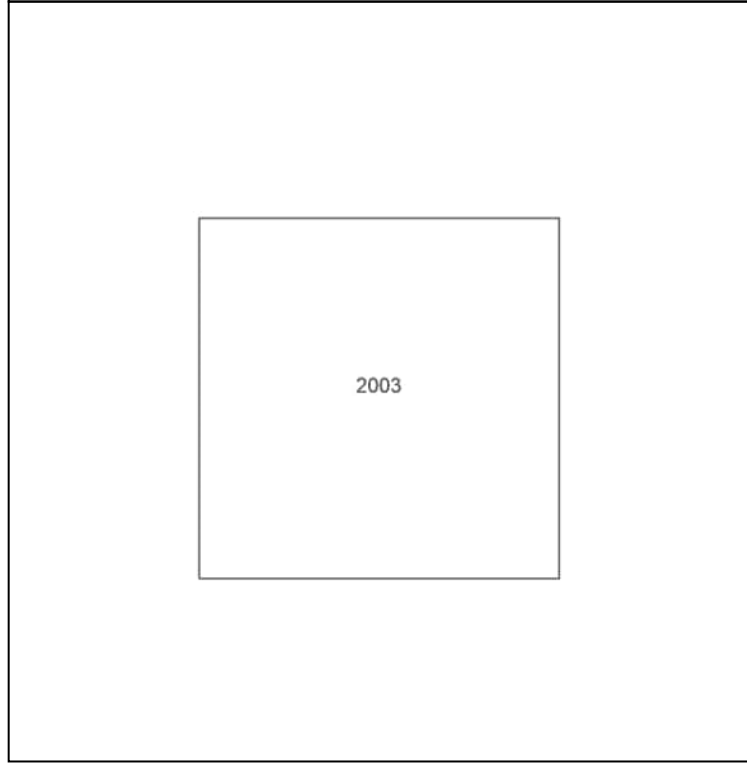
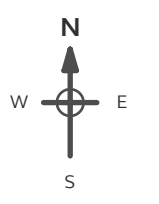
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Report Ref: GS-QCE-212-D95-XTT_Landline_5_5
Grid Ref: 550340, 181076

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

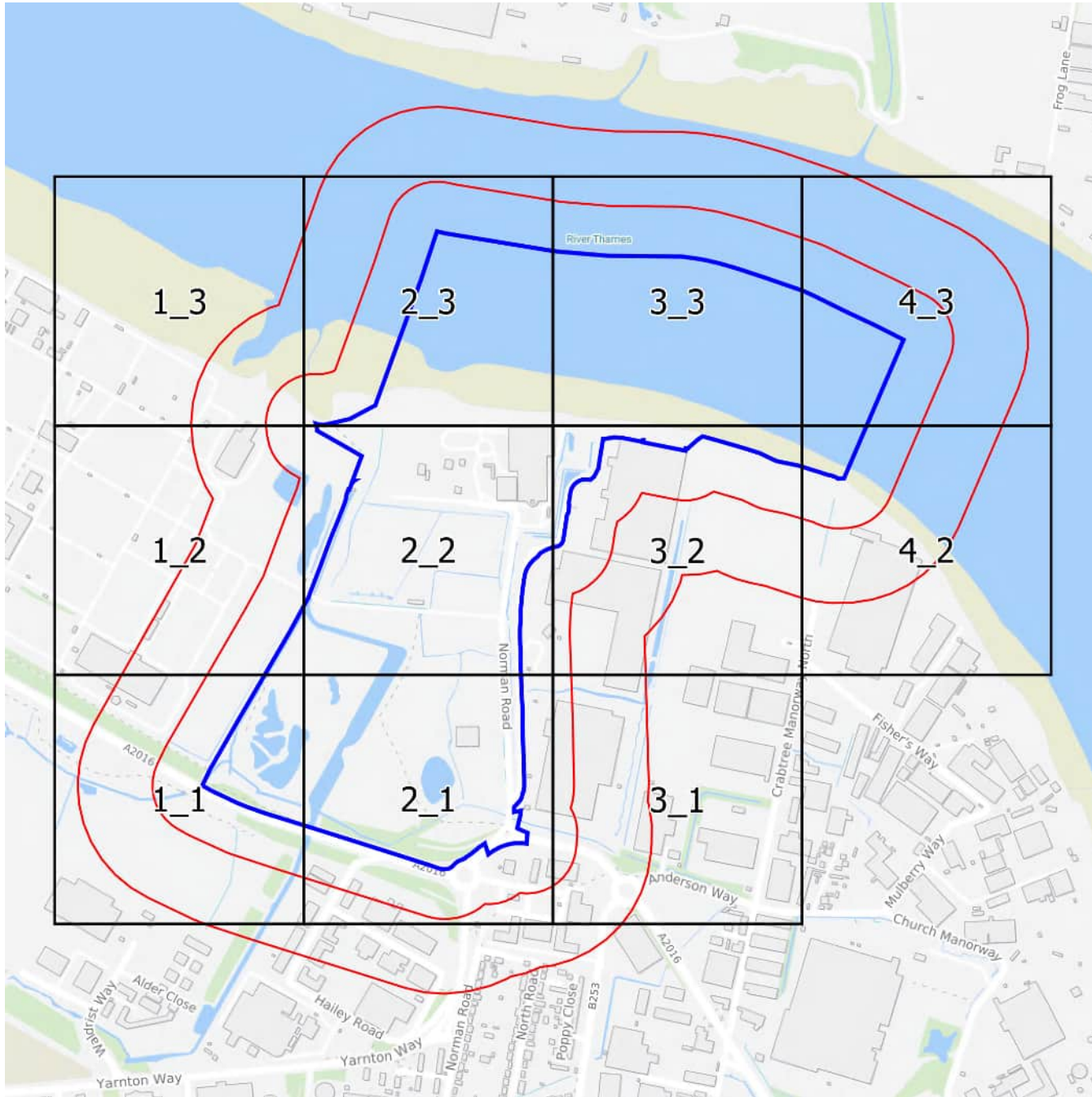


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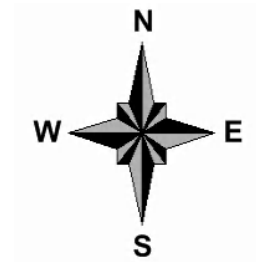
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Production date: 26 October 2023

Map legend available at: [REDACTED]



1:1,250 Scale Grid Index



Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_1
Grid Ref: 548990, 179976

Map Name: National Grid

Map date: 1957

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953

Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953

Surveyed 1957
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Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1959
Revised 1959
Edition N/A
Copyright N/A
Levelled 1953

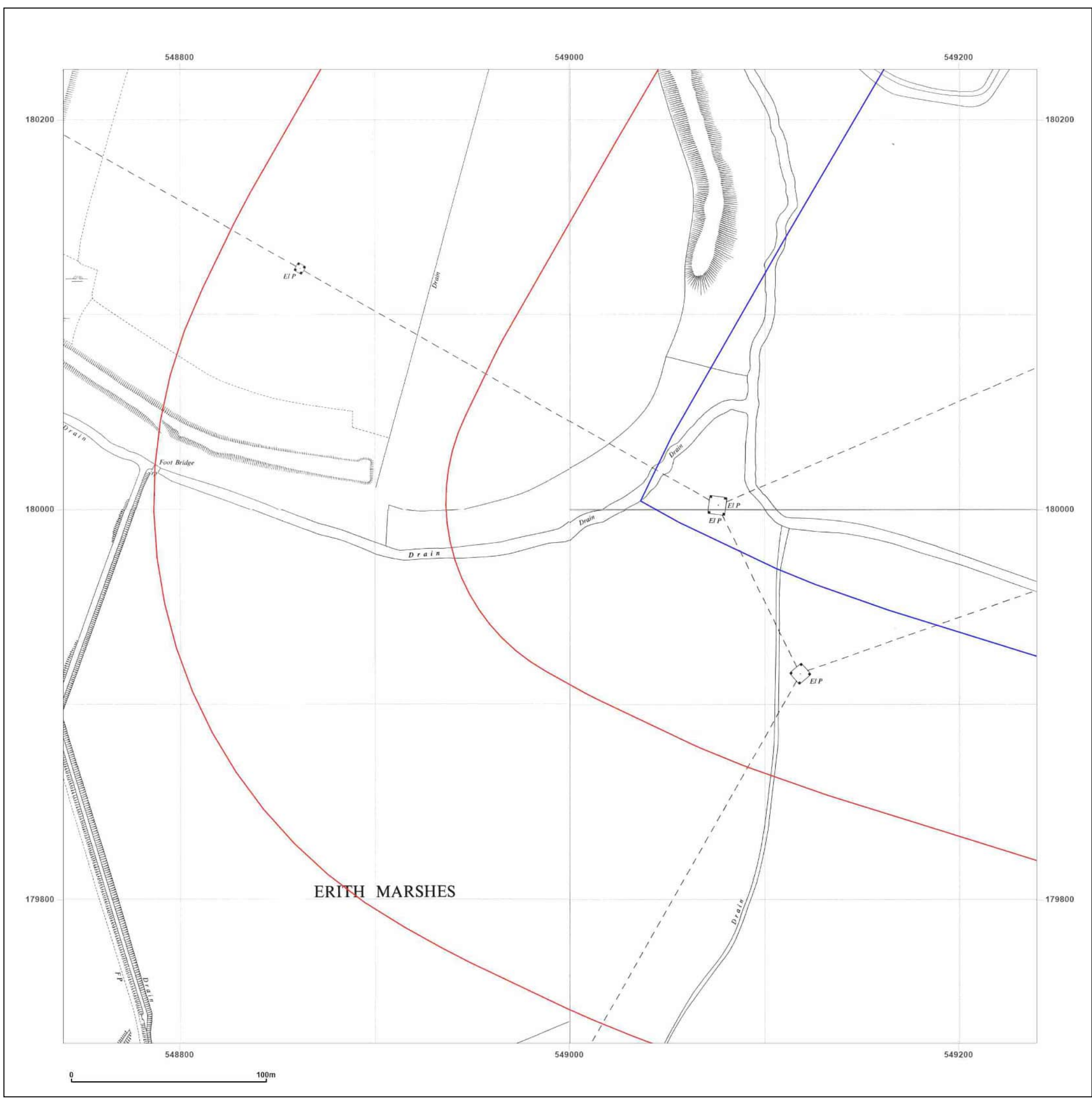


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_1
Grid Ref: 548990, 179976

Map Name: National Grid

Map date: 1958

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 N/A
Revised N/A
Edition N/A
Copyright N/A
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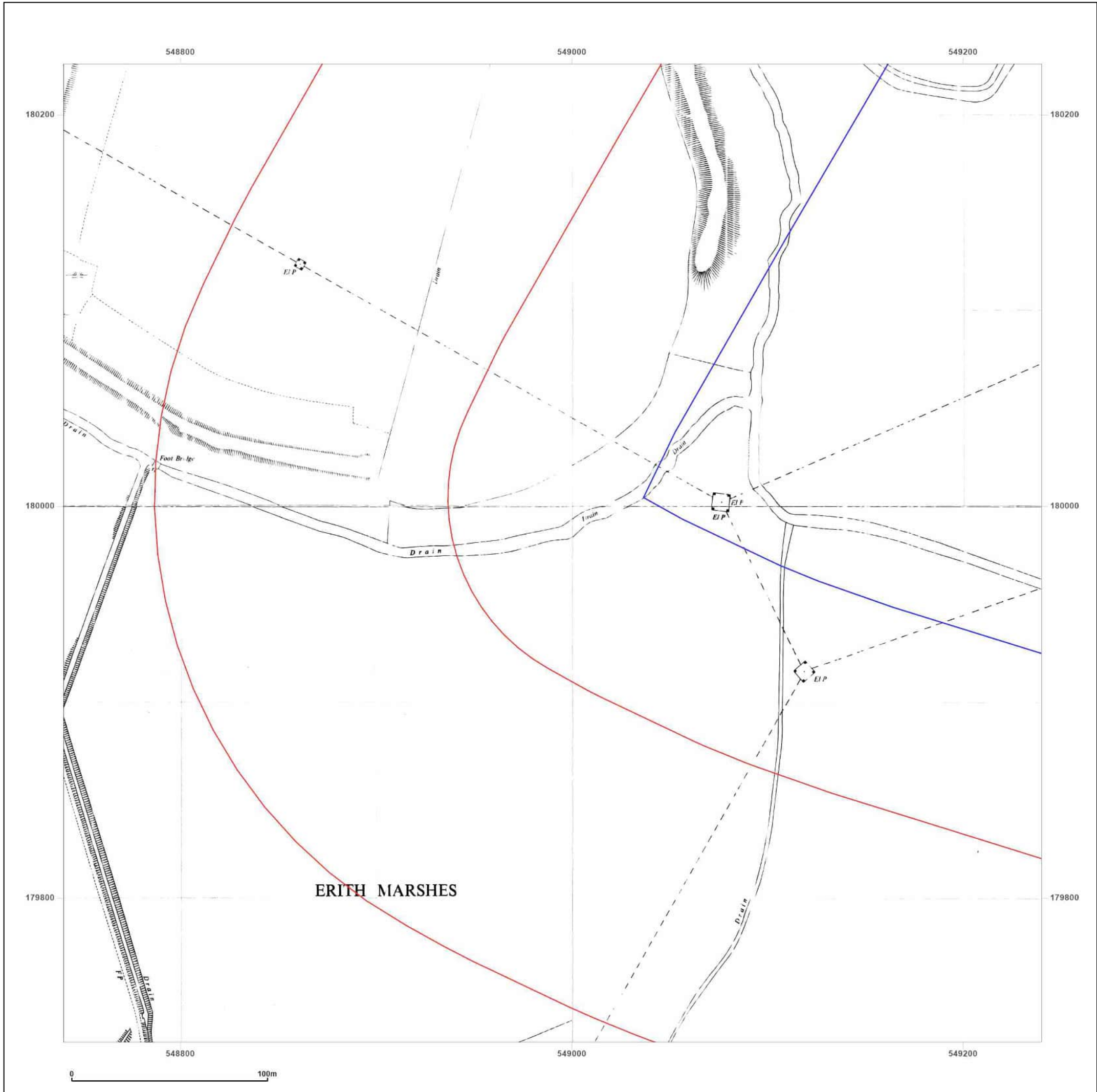


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Map legend available at: [REDACTED]



Site Details:

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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_1
Grid Ref: 548990, 179976

Map Name: National Grid

Map date: 1958

Scale: 1:1,250

Printed at: 1:2,000



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

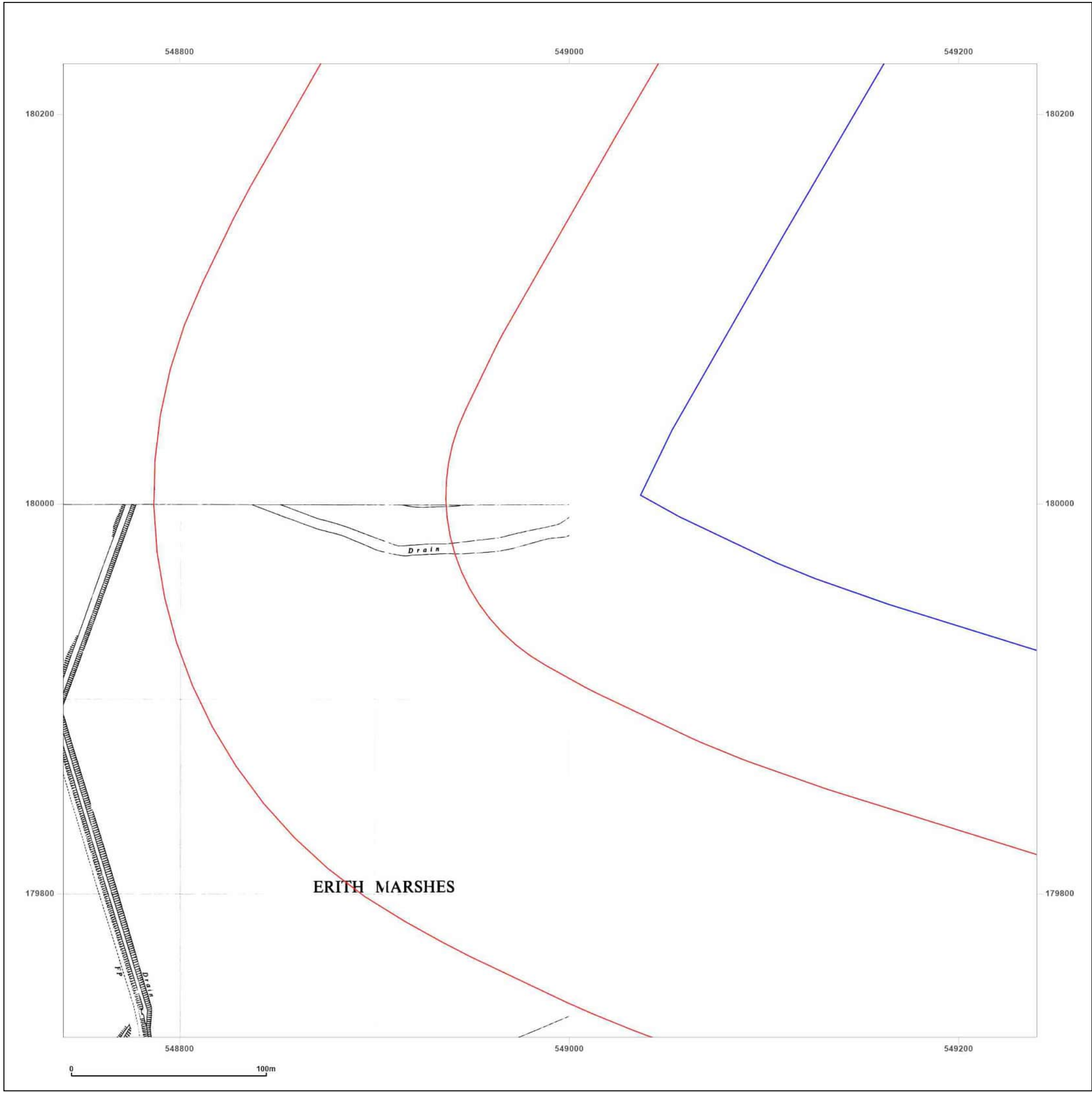


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Map legend available at: [REDACTED]



Site Details:

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Report Ref: GS-QCE-212-D95-XTT_1250_1_1
Grid Ref: 548990, 179976

Map Name: National Grid

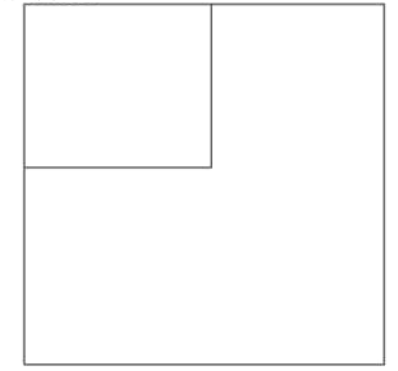
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Printed at: 1:2,000



Surveyed 1957
Revised 1966
Edition N/A
Copyright 1967
Levelled 1953

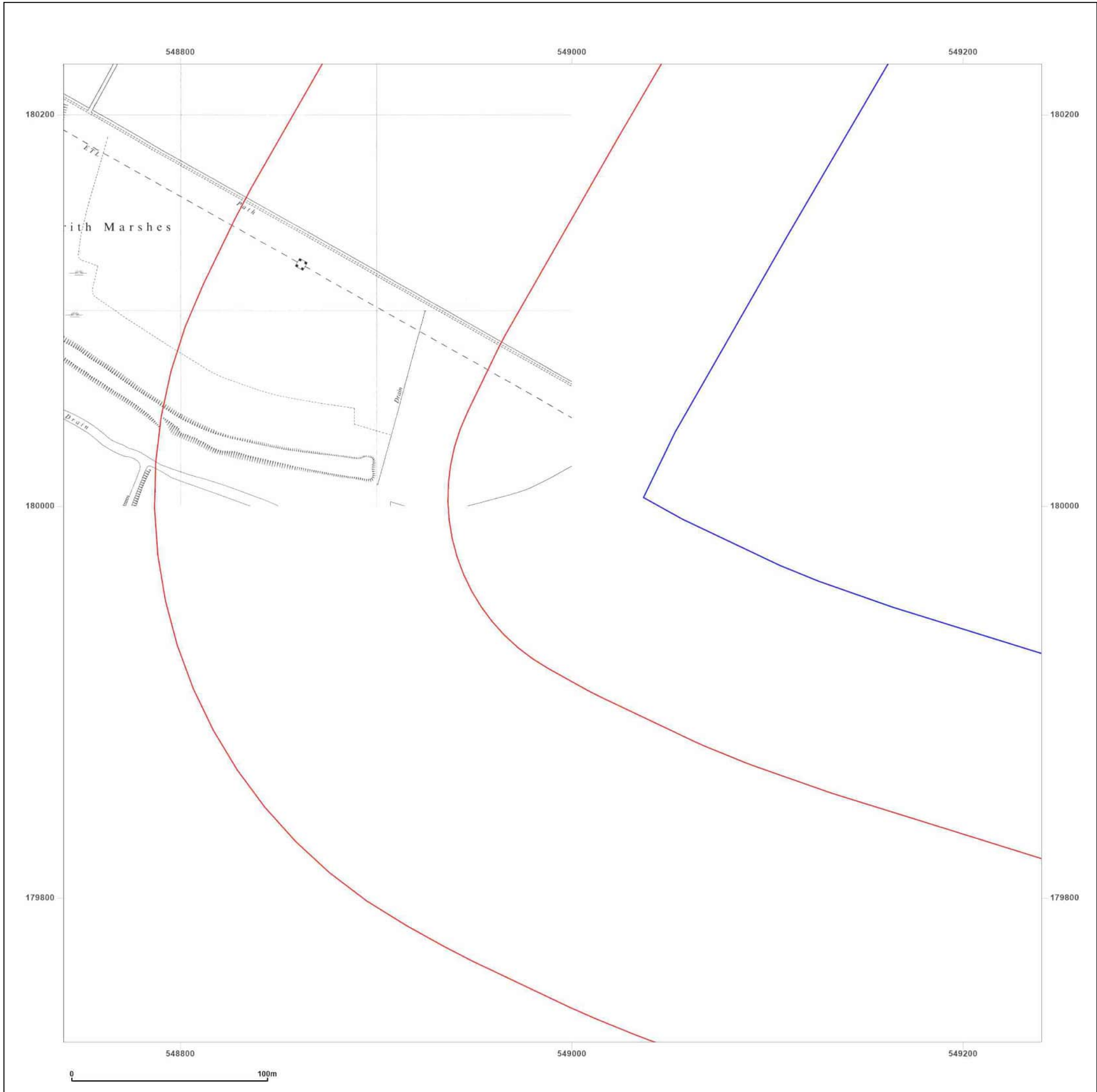


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Production date: 26 October 2023

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Site Details:

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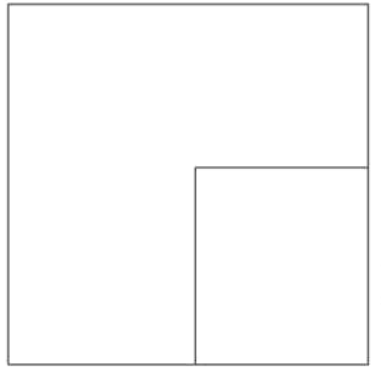
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Map Name: National Grid

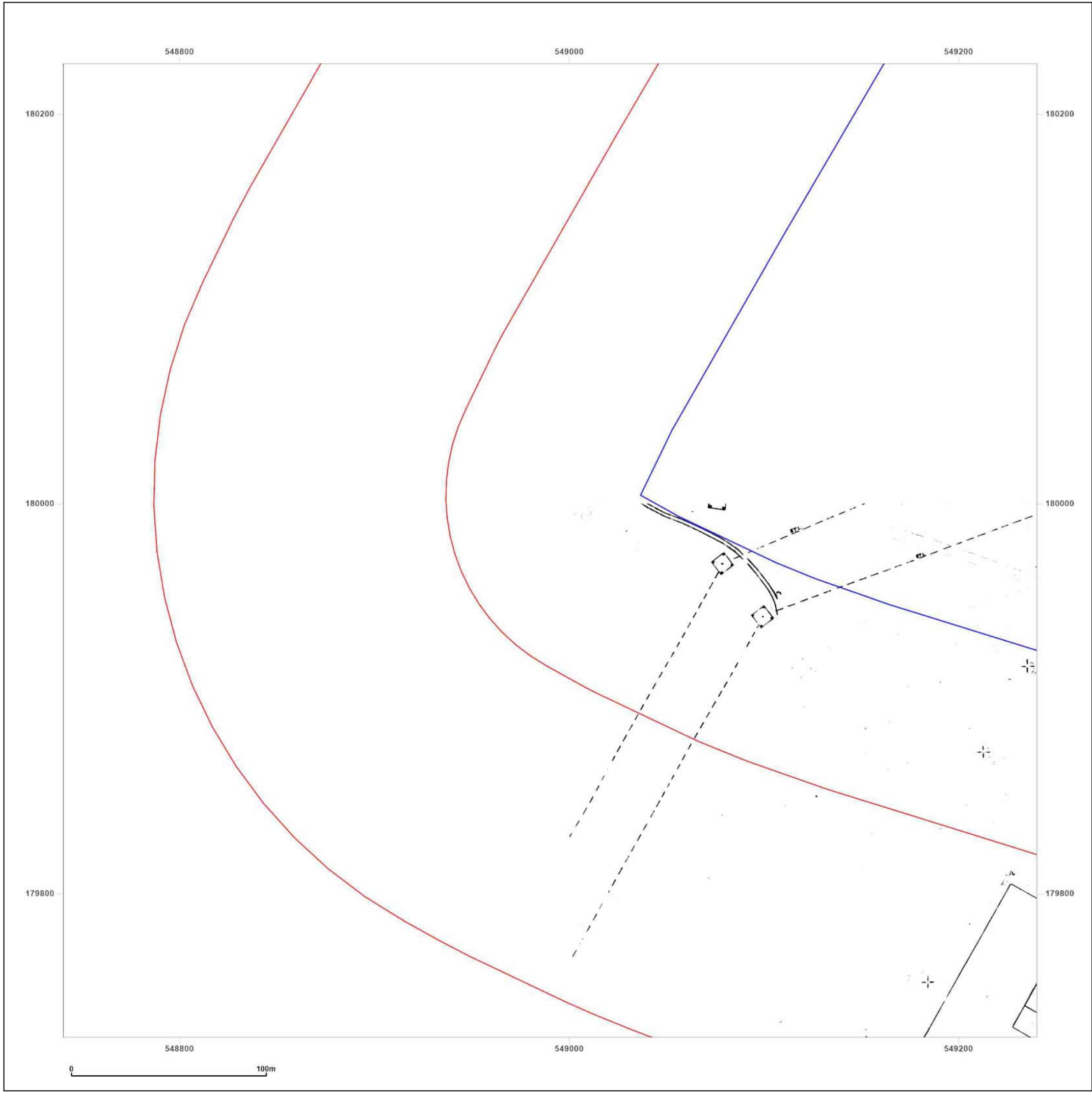
Map date: 1974

Scale: 1:1,250

Printed at: 1:2,000

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Edition N/A
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Production date: 26 October 2023

Map legend available at: [REDACTED]

Site Details:

549656.6233563919,180548.34
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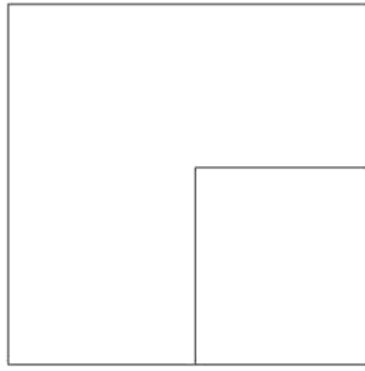
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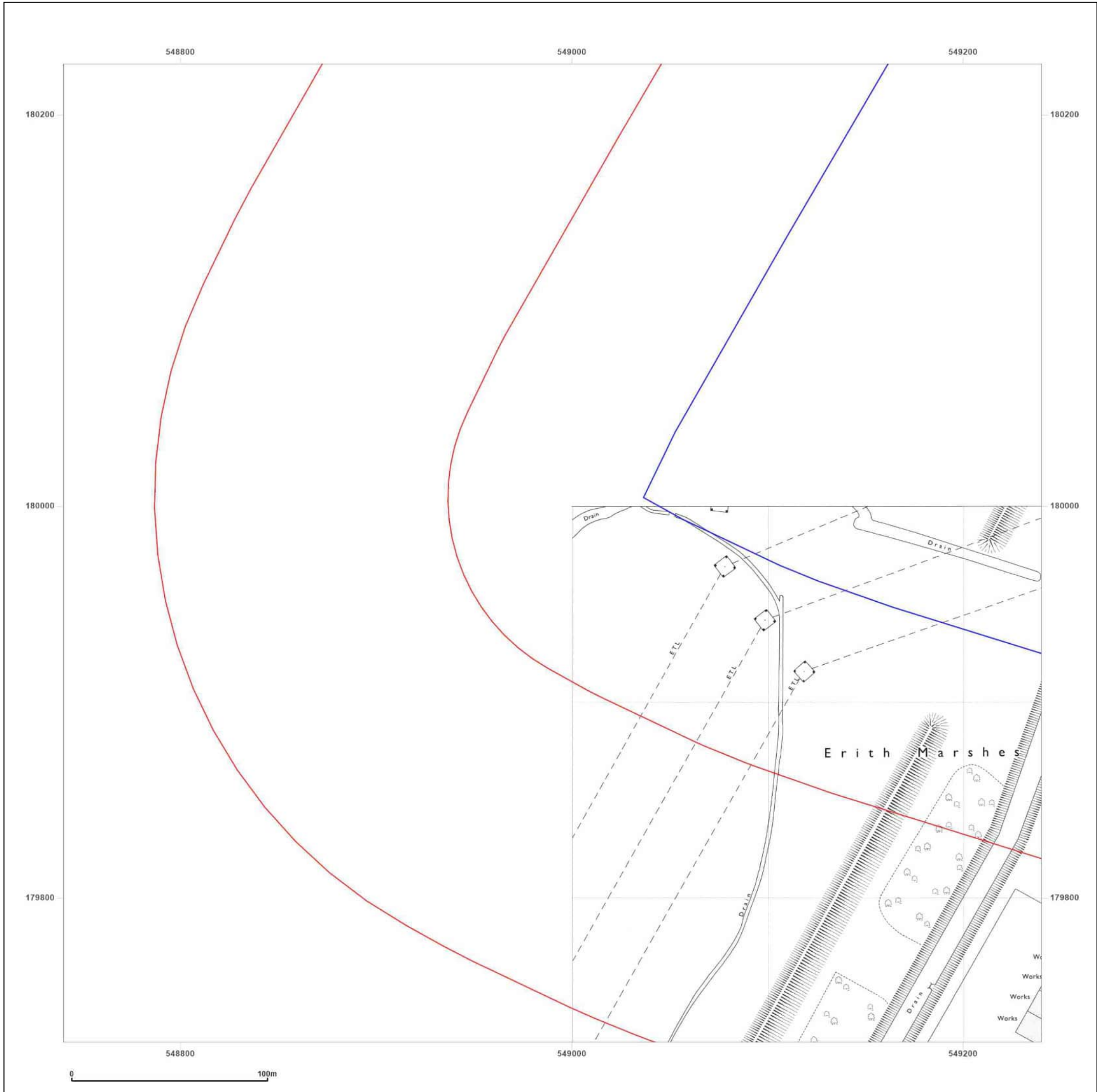
Map date: 1976

Scale: 1:1,250

Printed at: 1:2,000

Surveyed 1957
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Copyright 1976
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Map legend available at: [REDACTED]

Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_1
Grid Ref: 548990, 179976

Map Name: National Grid

Map date: 1982-1987

Scale: 1:1,250

Printed at: 1:2,000



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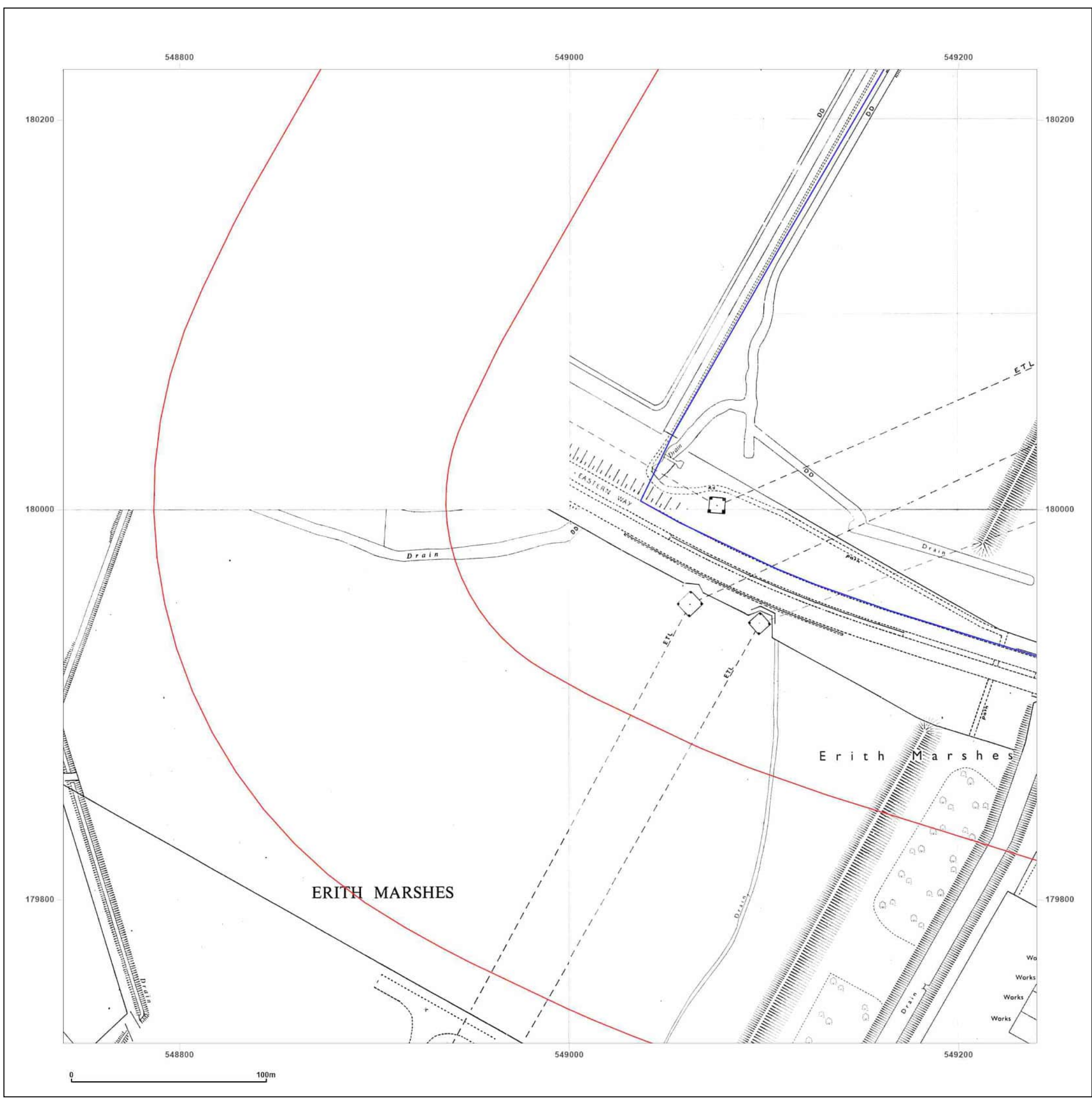


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_1
Grid Ref: 548990, 179976

Map Name: National Grid

Map date: 1989-1991

Scale: 1:1,250

Printed at: 1:2,000



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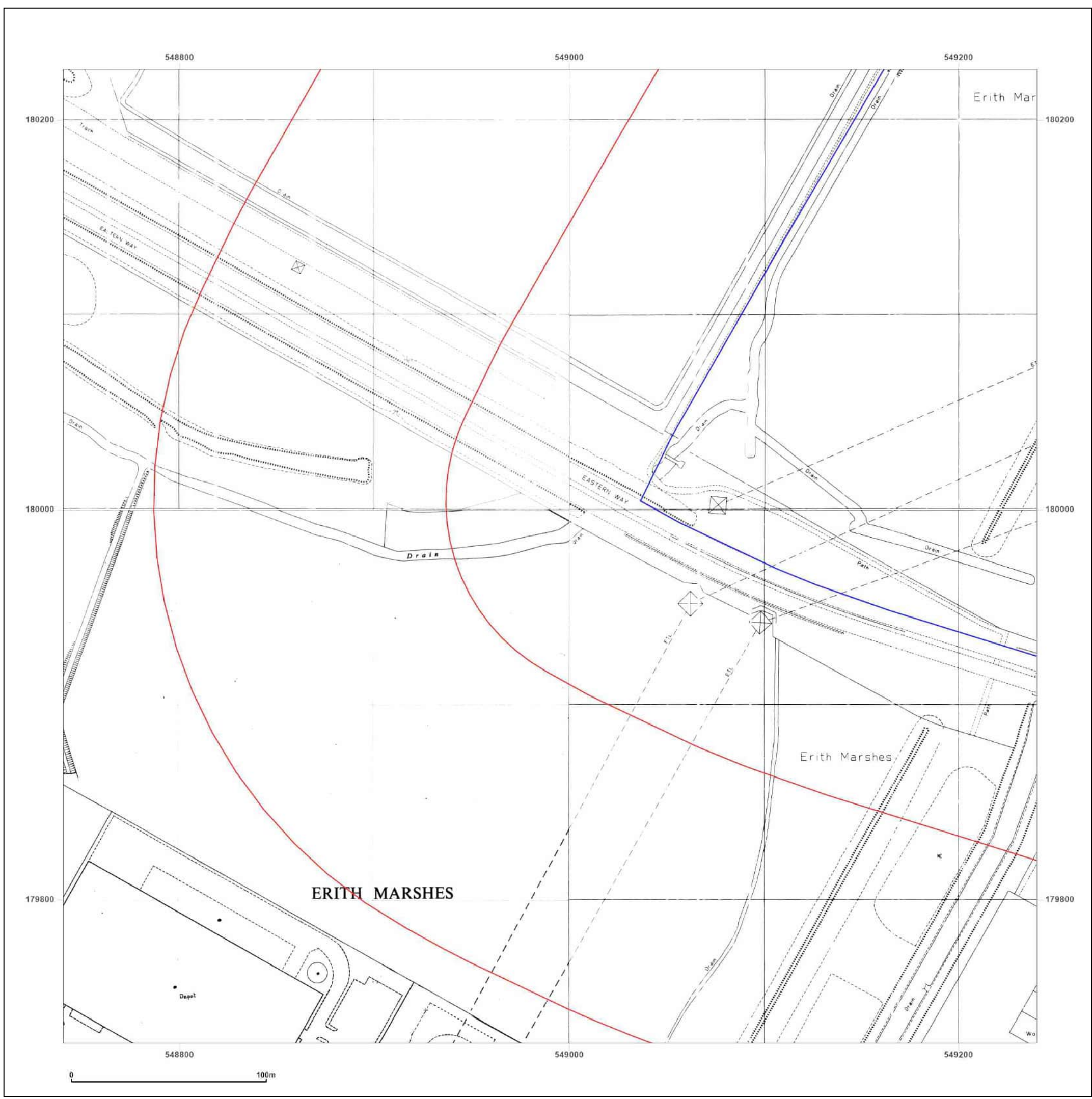


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Production date: 26 October 2023

Map legend available at: [REDACTED]

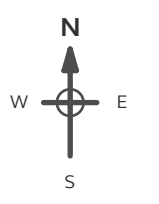


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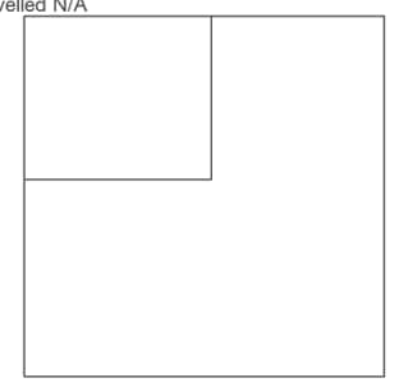
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Report Ref: GS-QCE-212-D95-XTT_1250_1_1
Grid Ref: 548990, 179976

Map Name: National Grid
Map date: 1992
Scale: 1:1,250
Printed at: 1:2,000



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

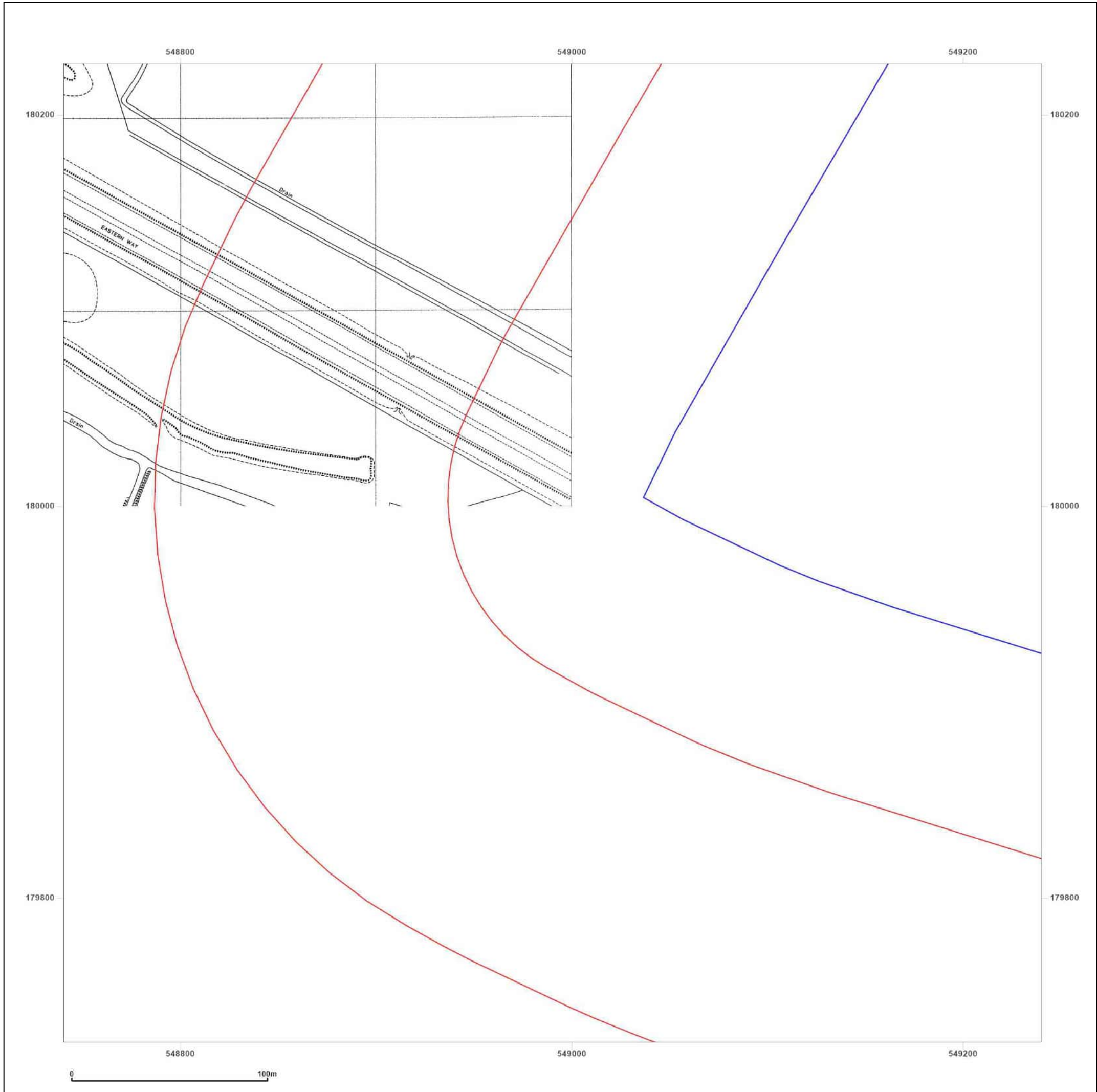


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Production date: 26 October 2023

Map legend available at:
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Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_1
Grid Ref: 548990, 179976

Map Name: National Grid

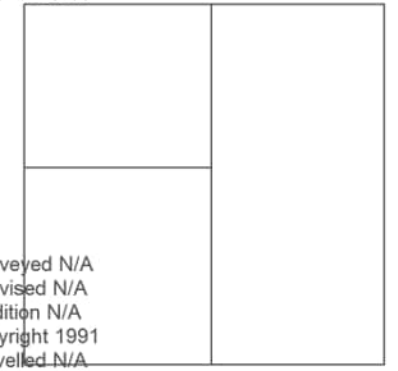
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Scale: 1:1,250

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Revised N/A
Edition N/A
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Levelled N/A



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

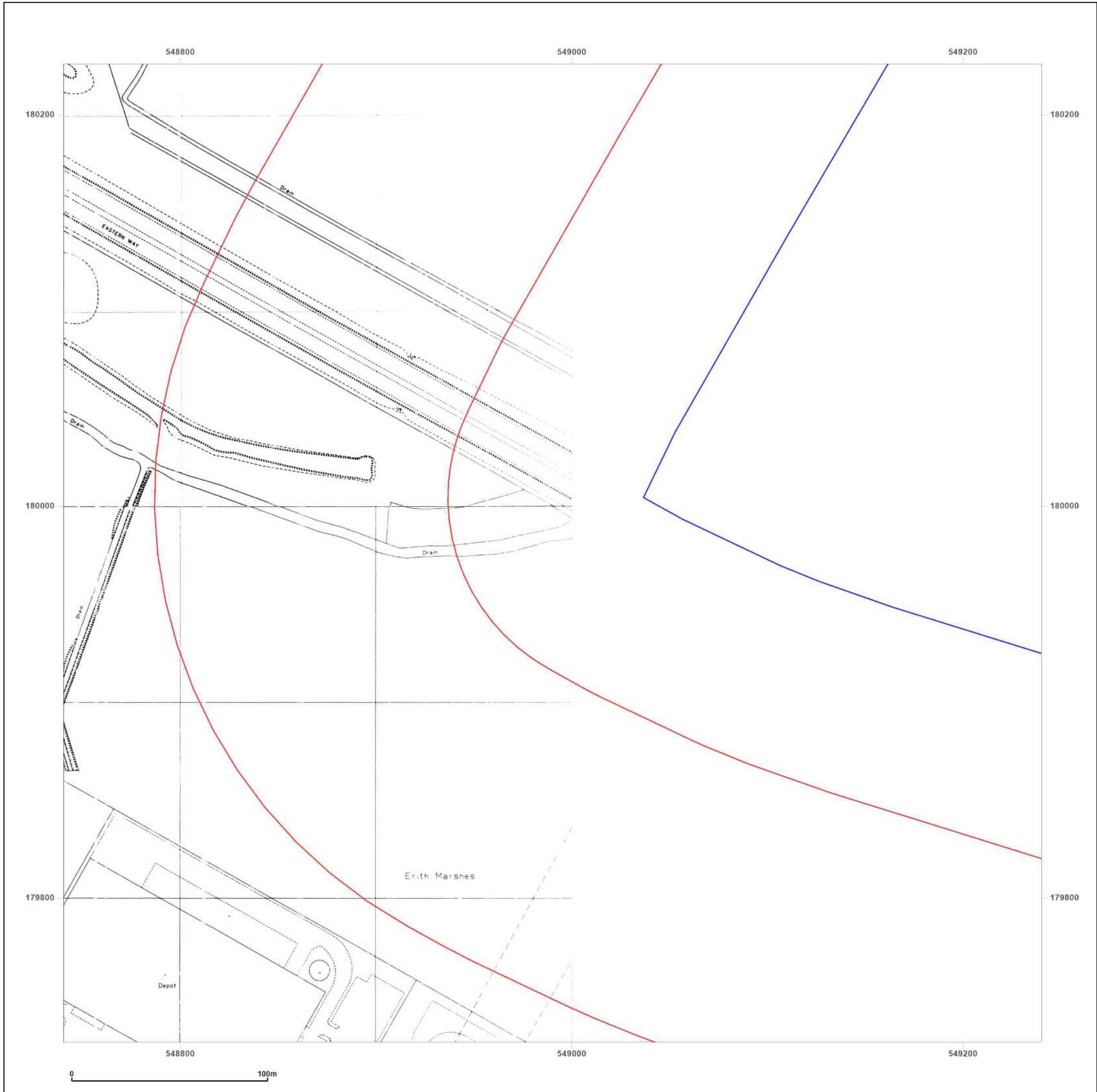


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_2
Grid Ref: 548990, 180476

Map Name: National Grid

Map date: 1957

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953

Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953

Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953

Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953

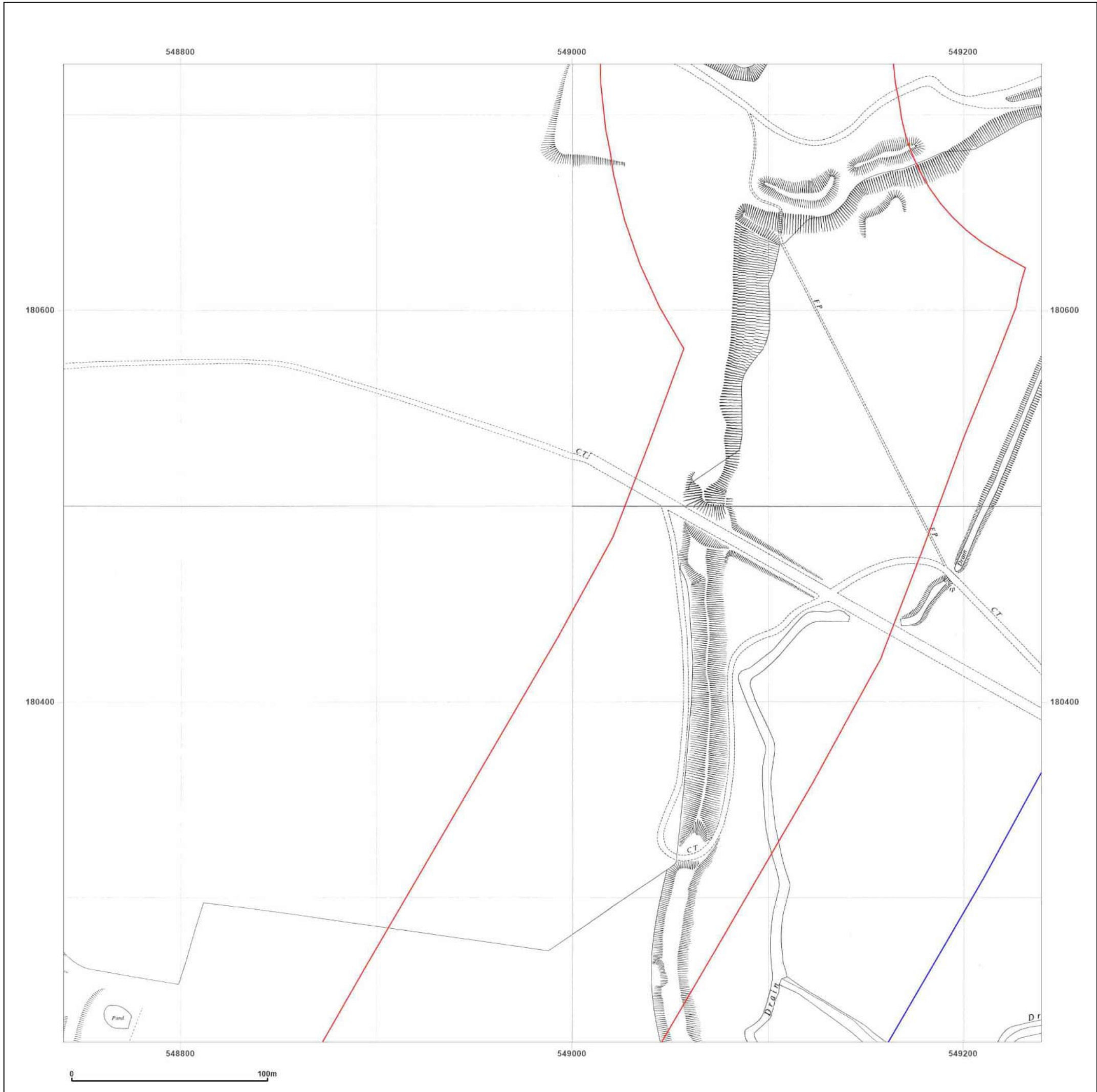


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Production date: 26 October 2023

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Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_2
Grid Ref: 548990, 180476

Map Name: National Grid

Map date: 1958

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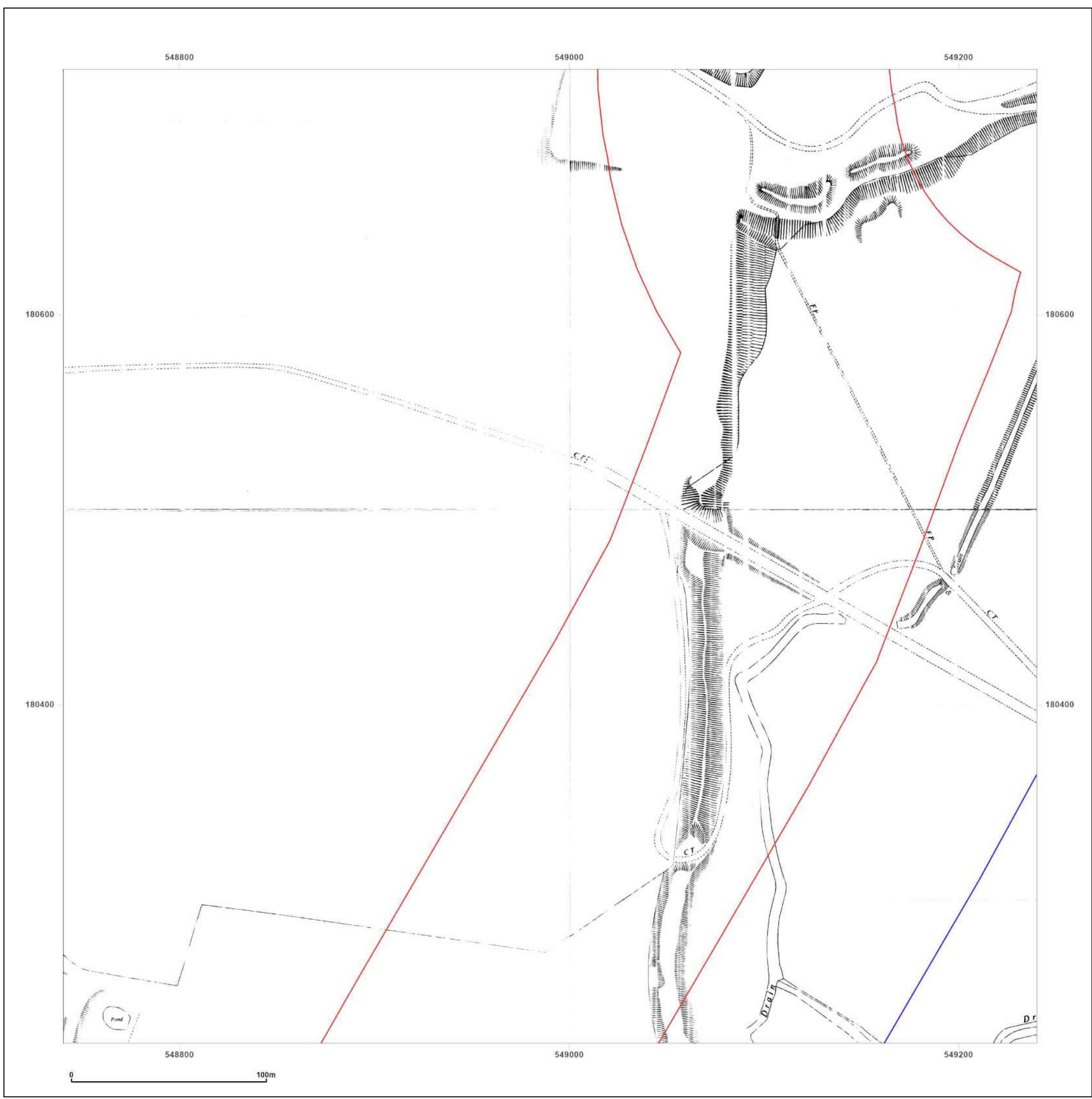


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Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_2
Grid Ref: 548990, 180476

Map Name: National Grid

Map date: 1967-1968

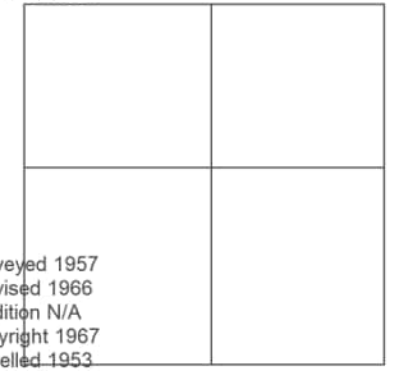
Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957
Revised 1966
Edition N/A
Copyright 1967
Levelled 1953

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



Surveyed 1957
Revised 1966
Edition N/A
Copyright 1967
Levelled 1953

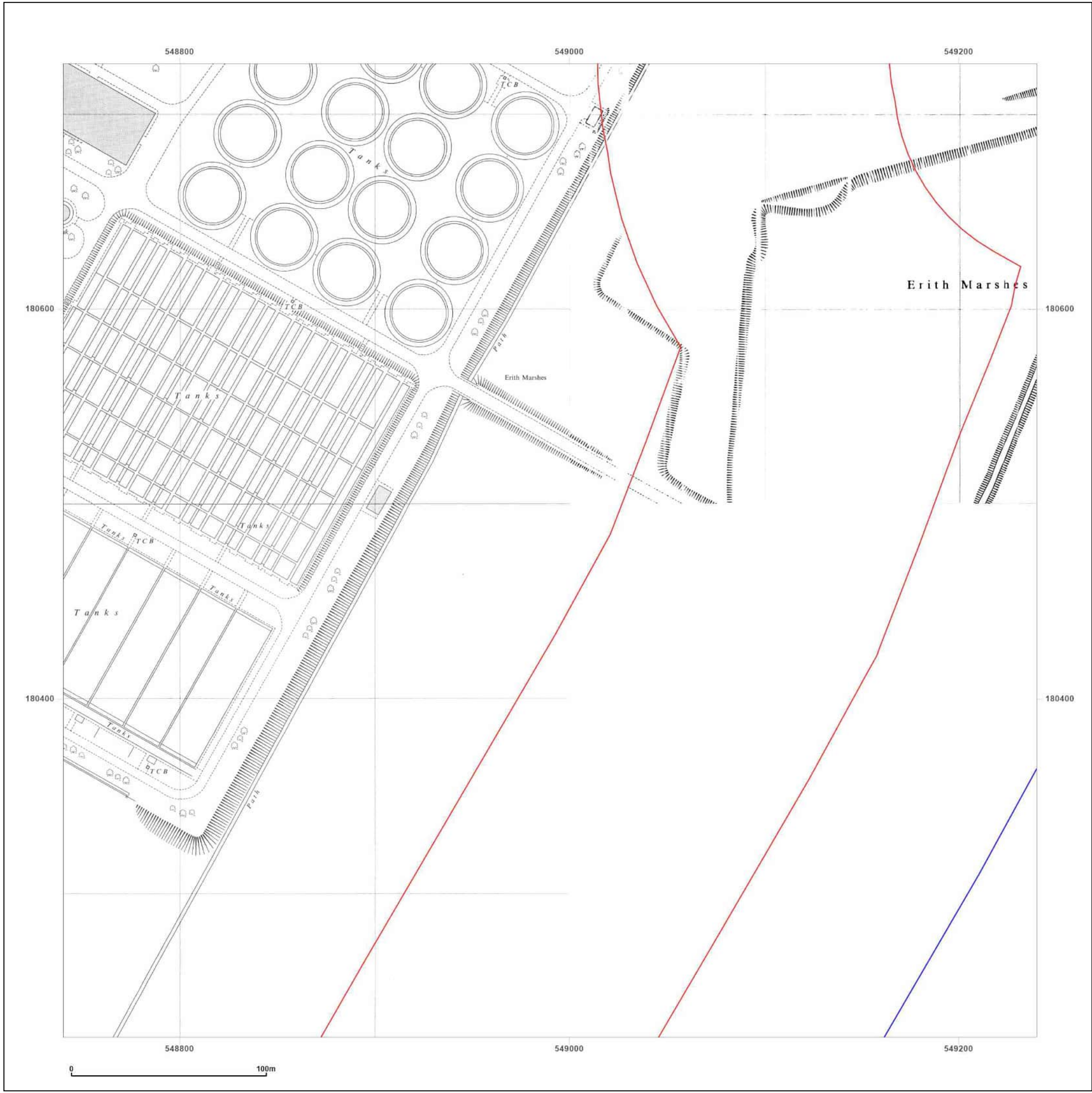


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Production date: 26 October 2023

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Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_2
Grid Ref: 548990, 180476

Map Name: National Grid

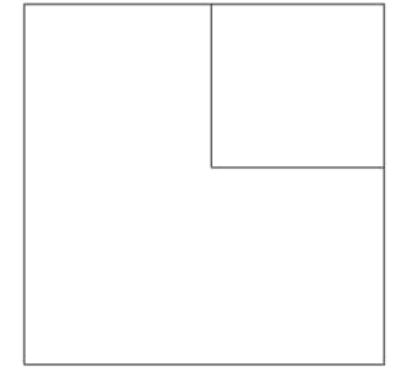
Map date: 1969

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1968
Revised 1968
Edition N/A
Copyright 1969
Levelled 1953

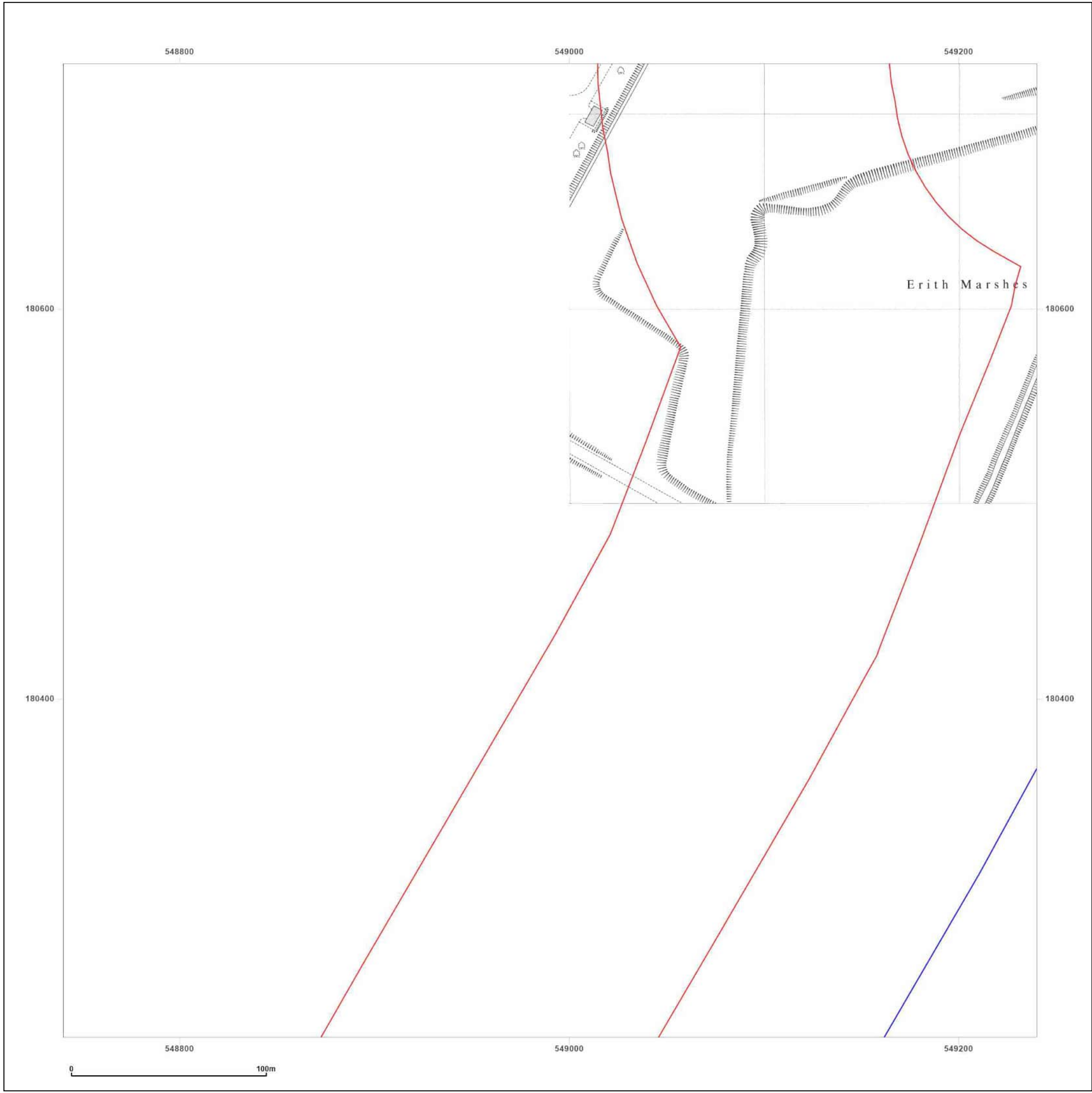


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Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_2
Grid Ref: 548990, 180476

Map Name: National Grid

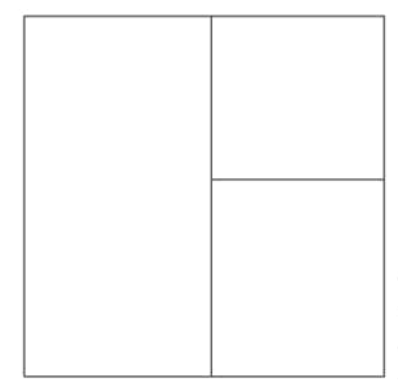
Map date: 1983-1984

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1968
Revised 1984
Edition N/A
Copyright 1984
Levelled 1968



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1983
Levelled 1977

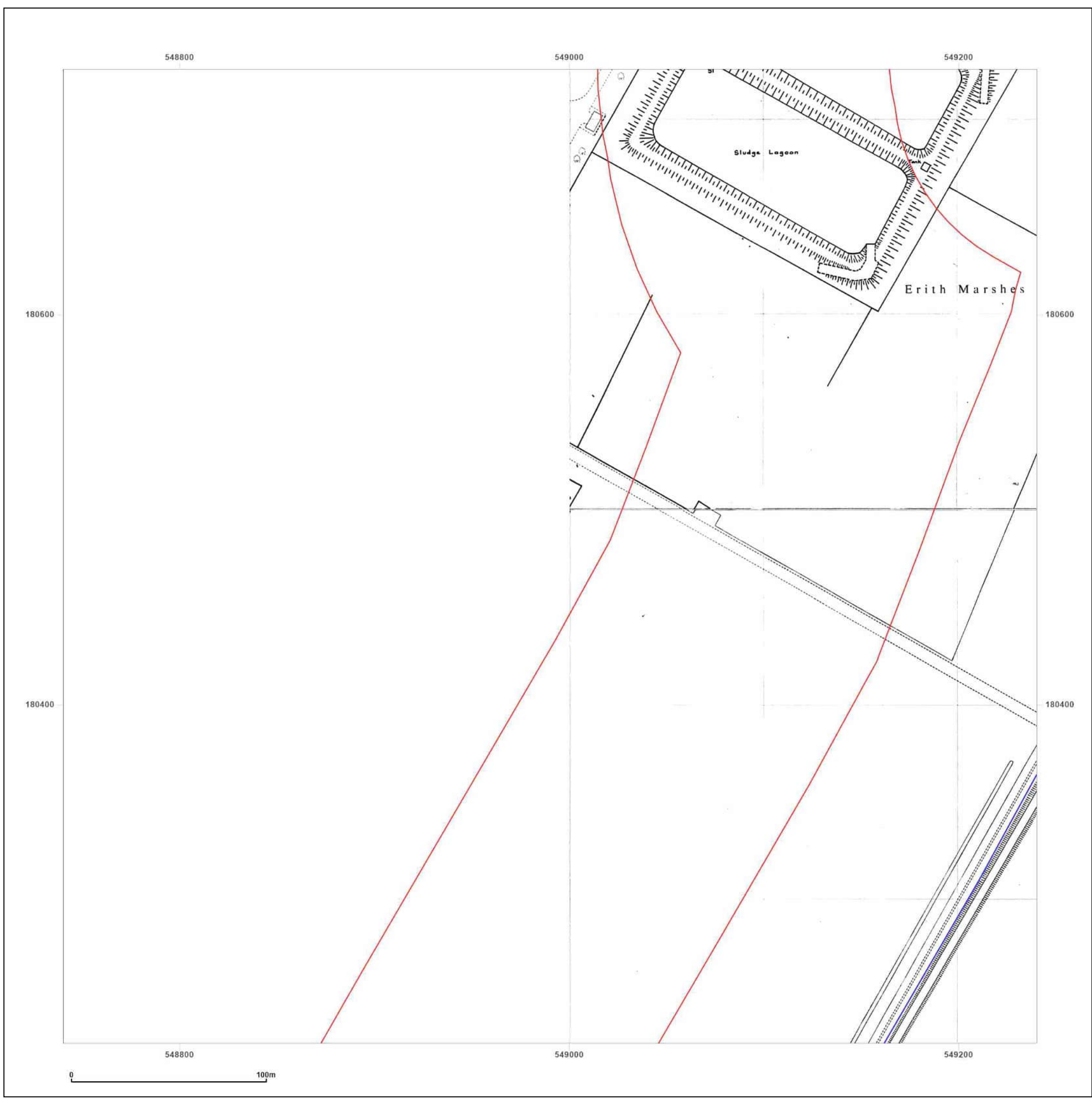


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Site Details:

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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_2
Grid Ref: 548990, 180476

Map Name: National Grid

Map date: 1991

Scale: 1:1,250

Printed at: 1:2,000



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

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

Surveyed N/A
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Edition N/A
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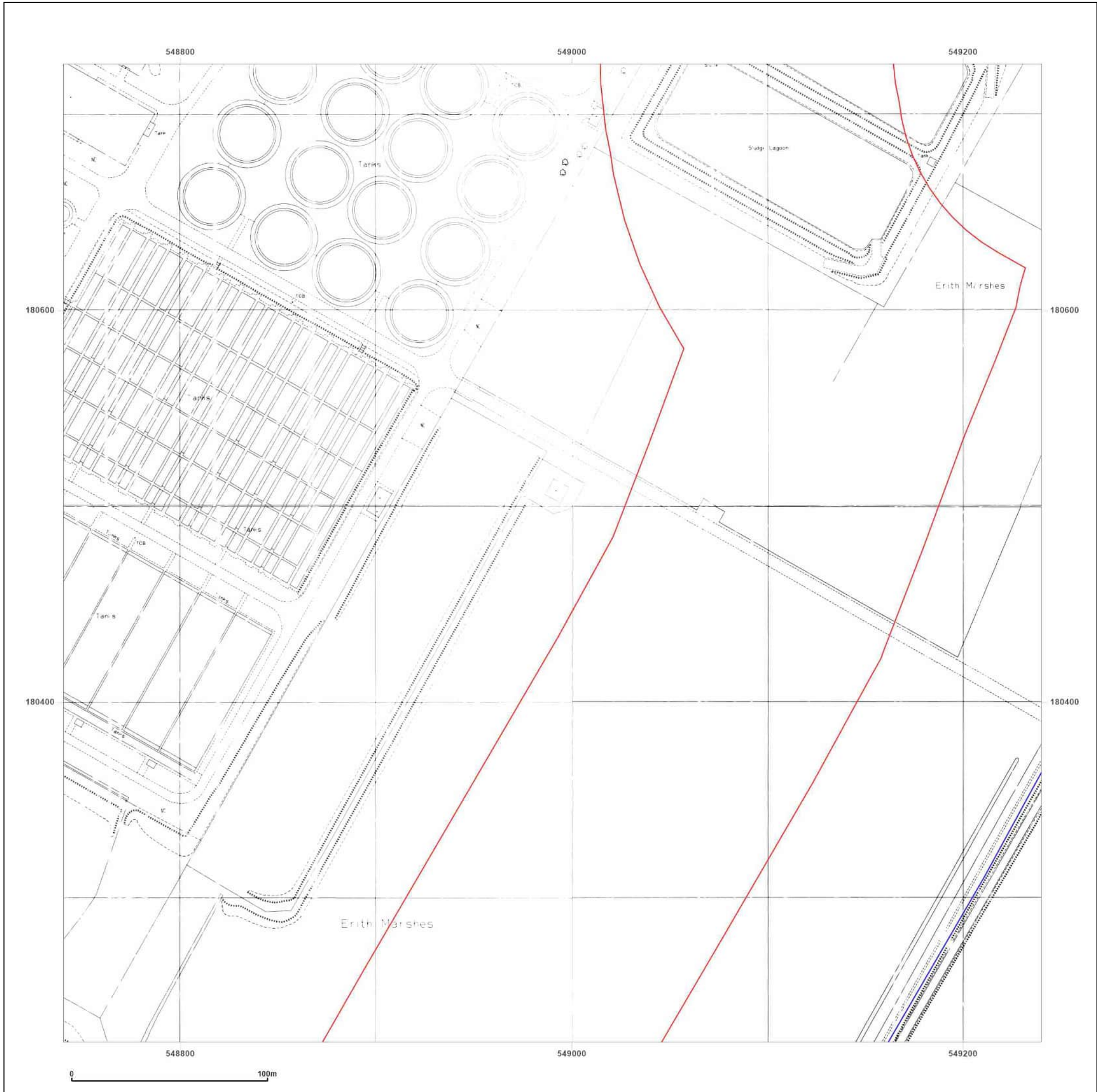


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Map legend available at:
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Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_2
Grid Ref: 548990, 180476

Map Name: National Grid

Map date: 1992

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 1992
Levelled N/A

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

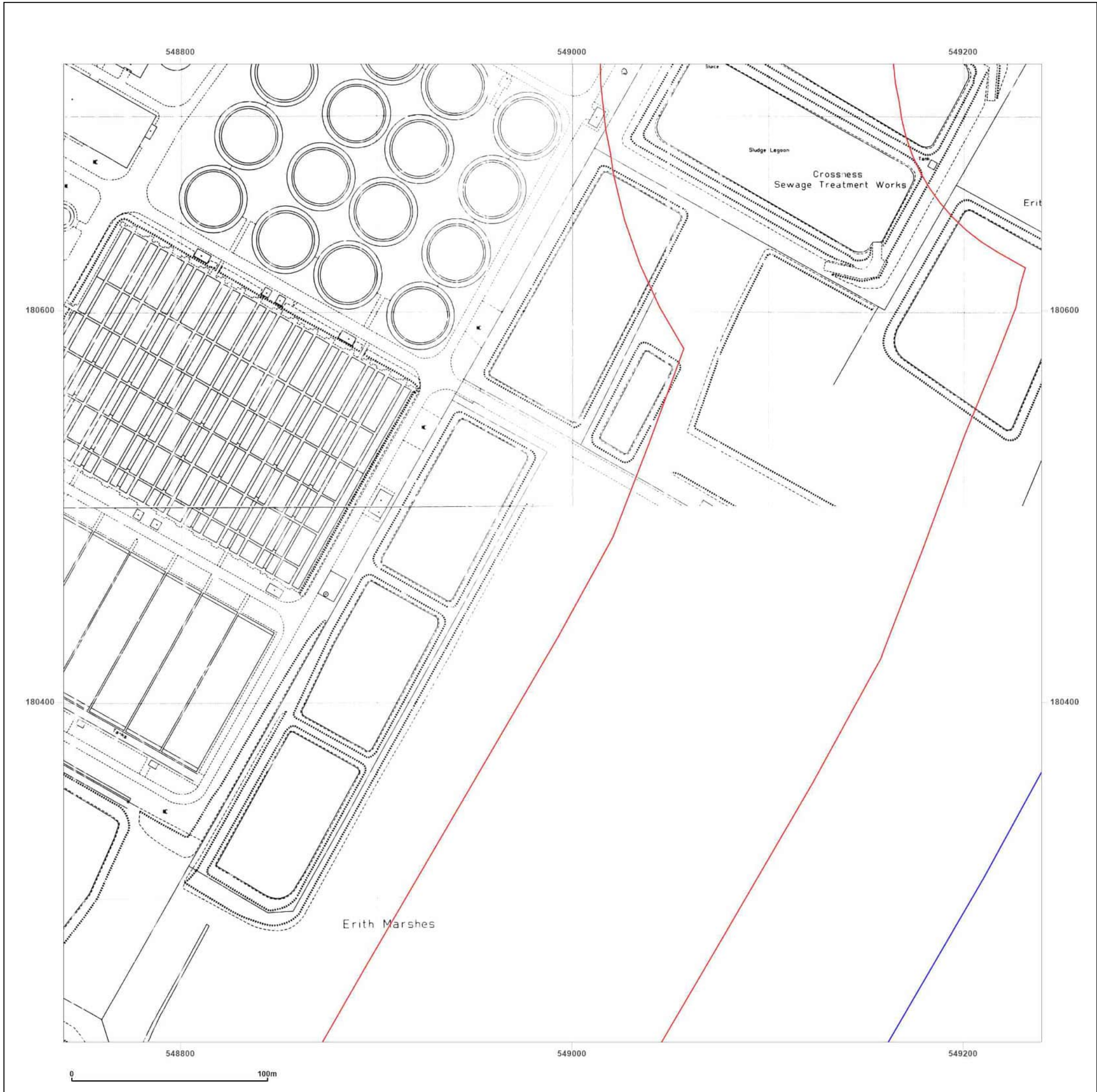


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Site Details:

549656.6233563919,180548.34
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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_2
Grid Ref: 548990, 180476

Map Name: National Grid

Map date: 1992

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

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

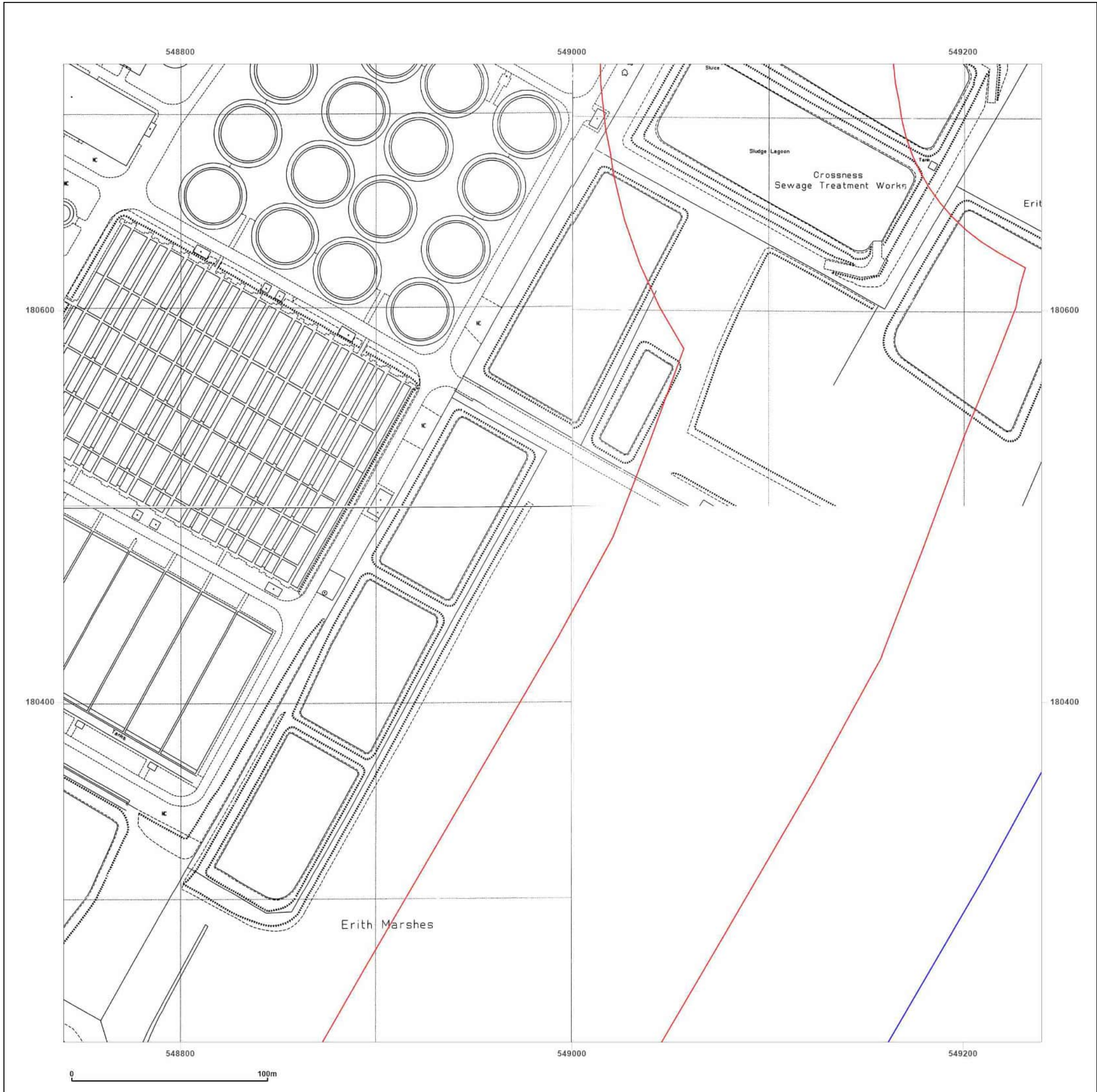


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Map legend available at:
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Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_3
Grid Ref: 548990, 180976

Map Name: National Grid

Map date: 1957-1962

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948

Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953

Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953

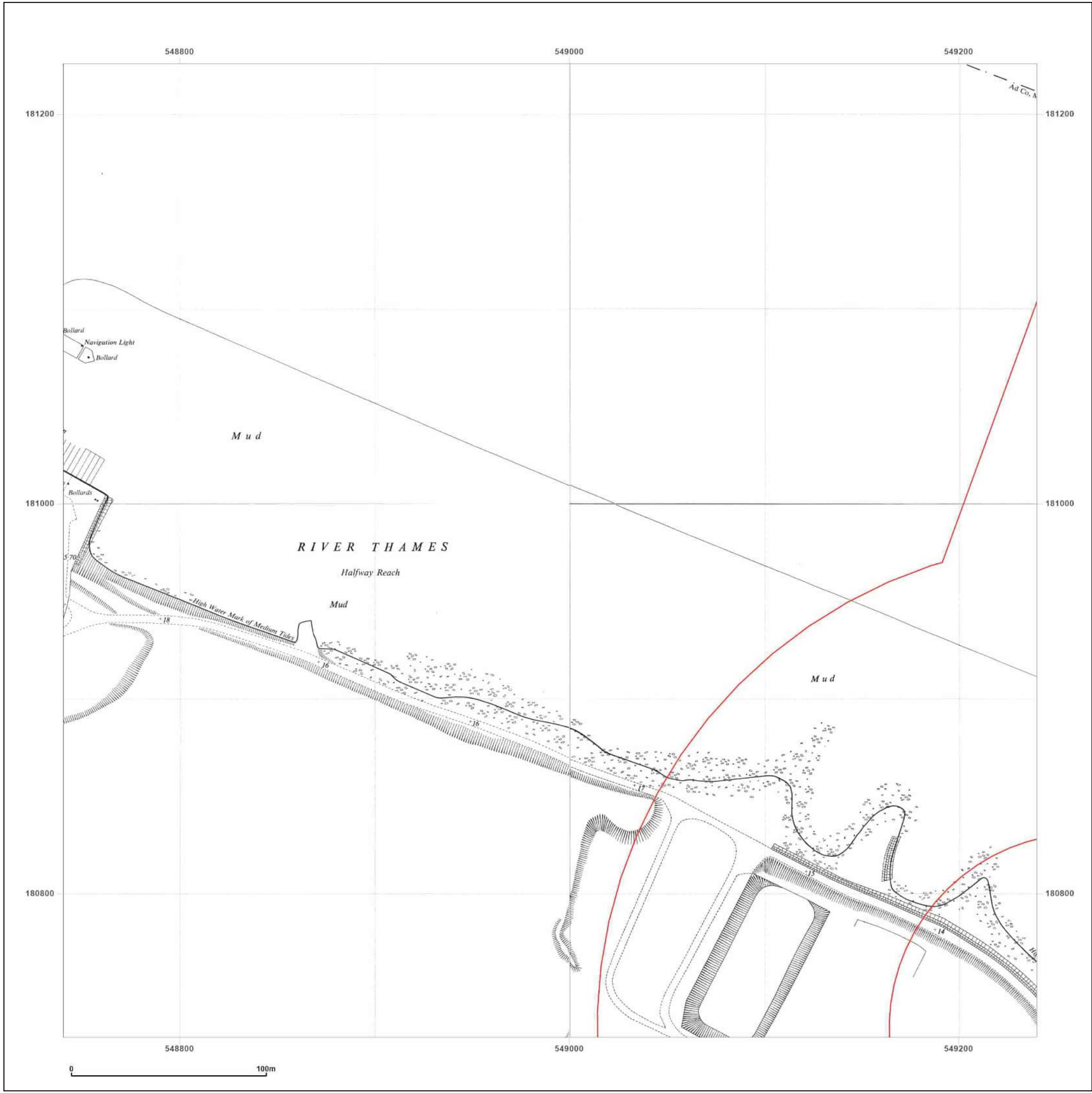


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Production date: 26 October 2023

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Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_3
Grid Ref: 548990, 180976

Map Name: National Grid

Map date: 1958-1962

Scale: 1:1,250

Printed at: 1:2,000



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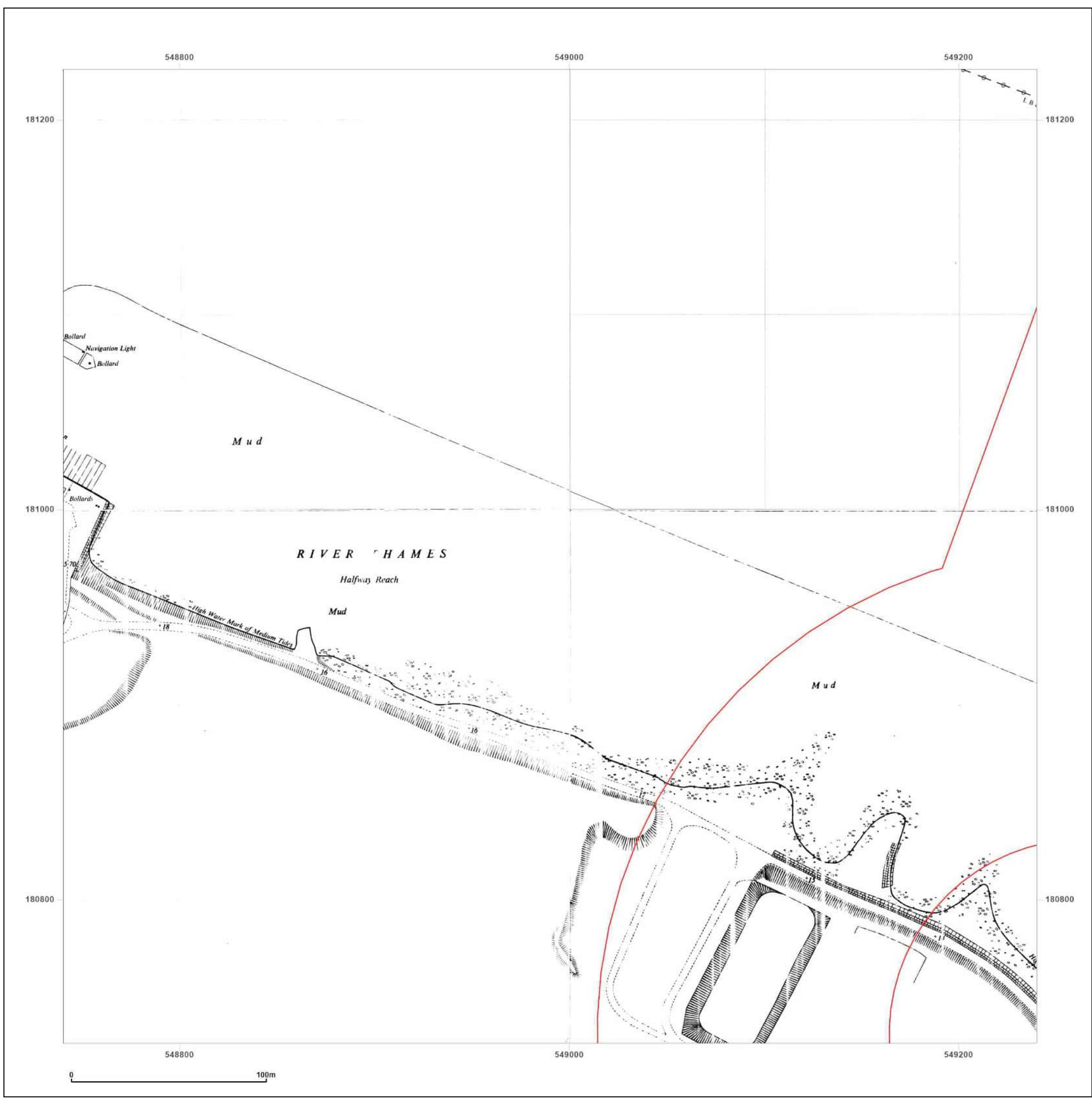


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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_3
Grid Ref: 548990, 180976

Map Name: National Grid

Map date: 1967-1968

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957 Revised 1966 Edition N/A Copyright 1967 Levelled 1953	Surveyed N/A Revised N/A Edition N/A Copyright N/A Levelled N/A
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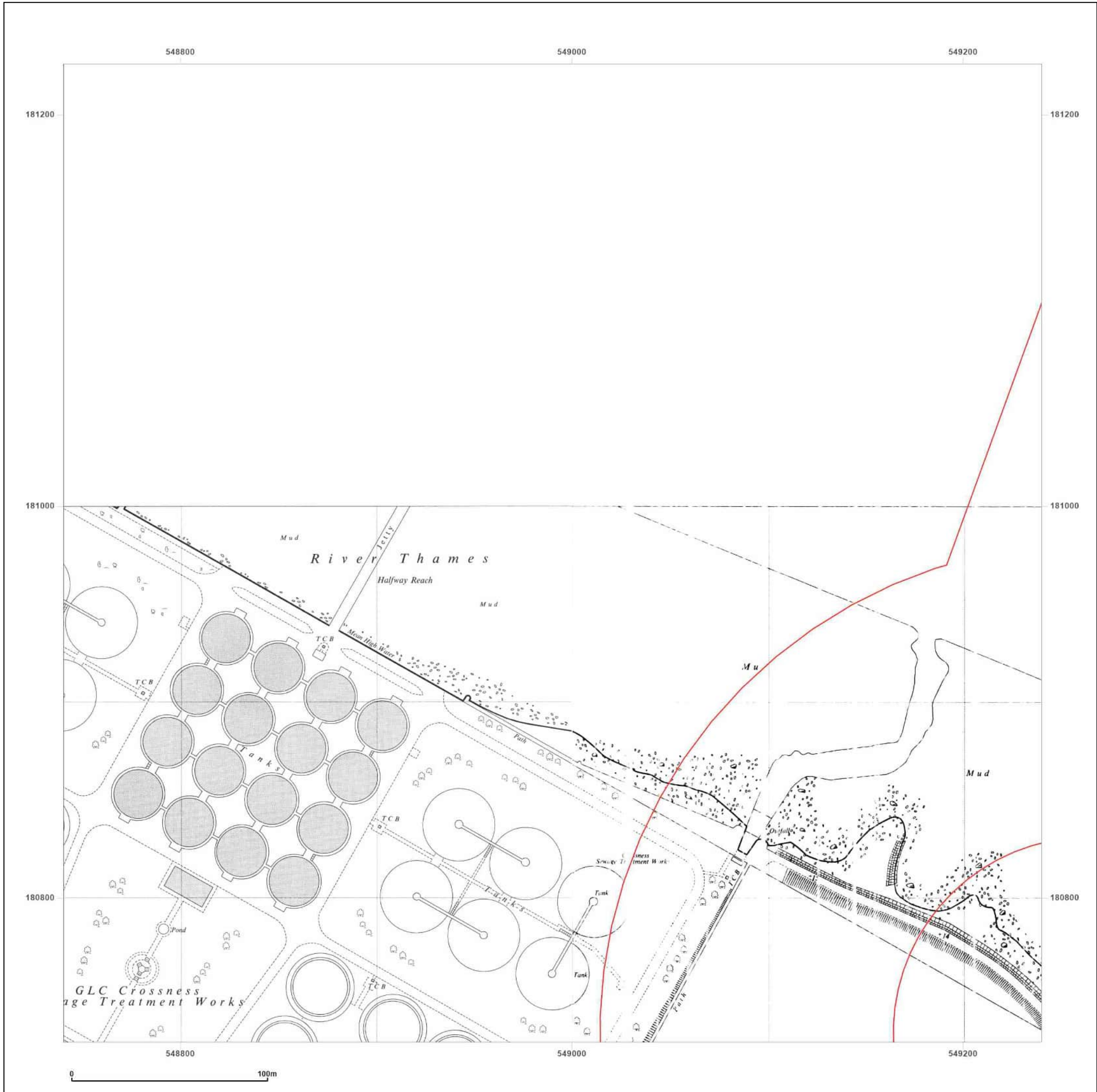


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Report Ref: GS-QCE-212-D95-XTT_1250_1_3
Grid Ref: 548990, 180976

Map Name: National Grid

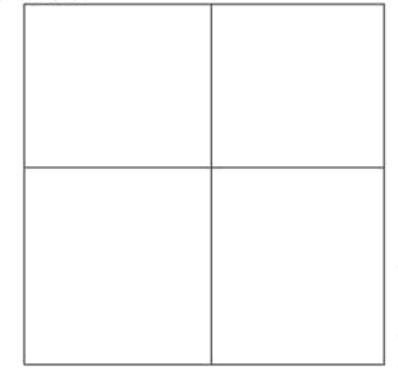
Map date: 1969-1974

Scale: 1:1,250

Printed at: 1:2,000



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



Surveyed 1968
Revised 1968
Edition N/A
Copyright 1969
Levelled 1953

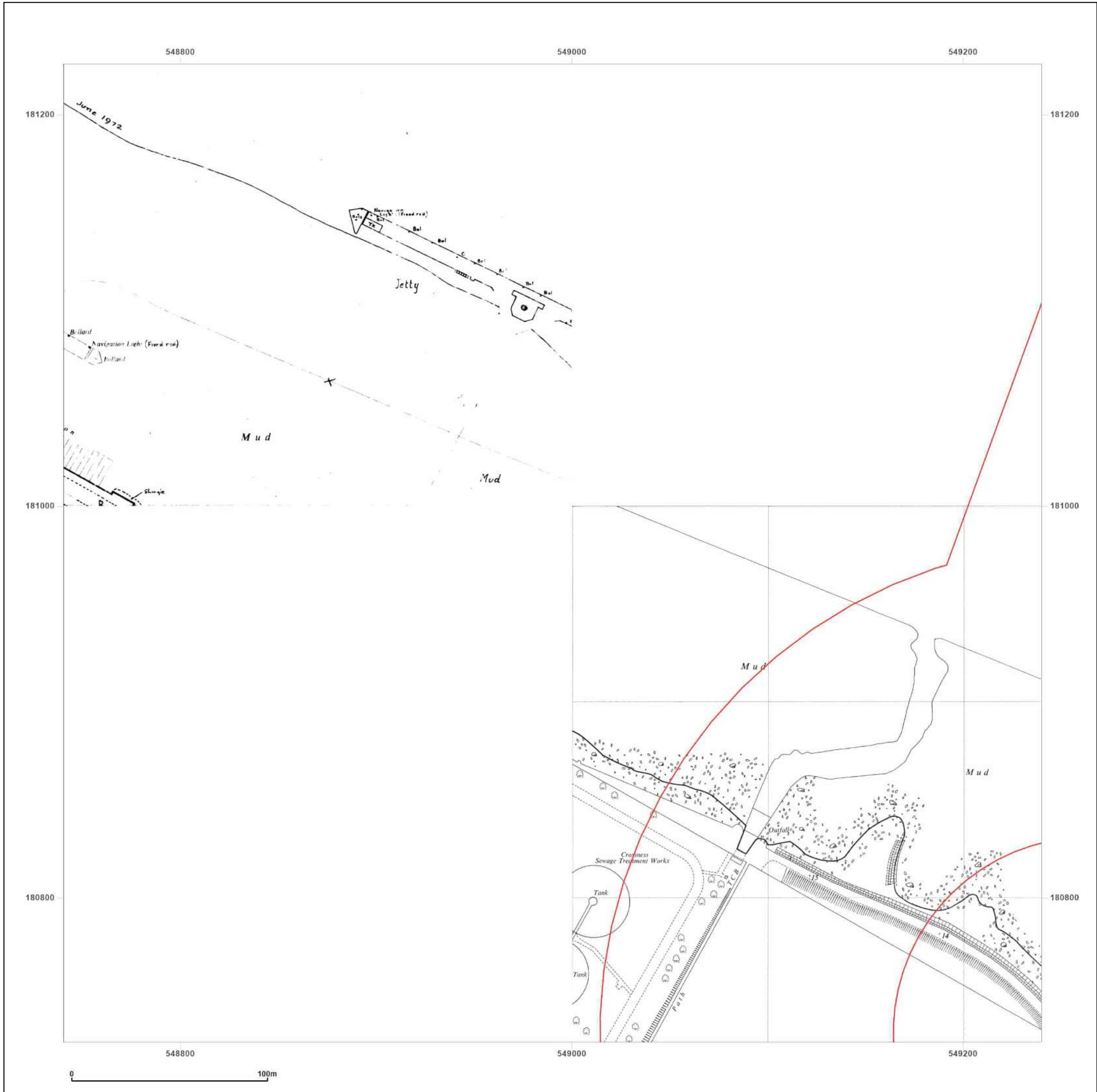


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

549656.6233563919,180548.34
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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_3
Grid Ref: 548990, 180976

Map Name: National Grid

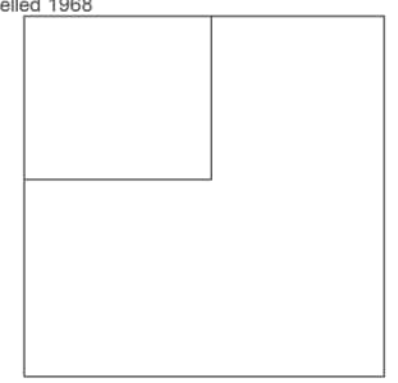
Map date: 1975

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957
Revised 1974
Edition N/A
Copyright 1975
Levelled 1968

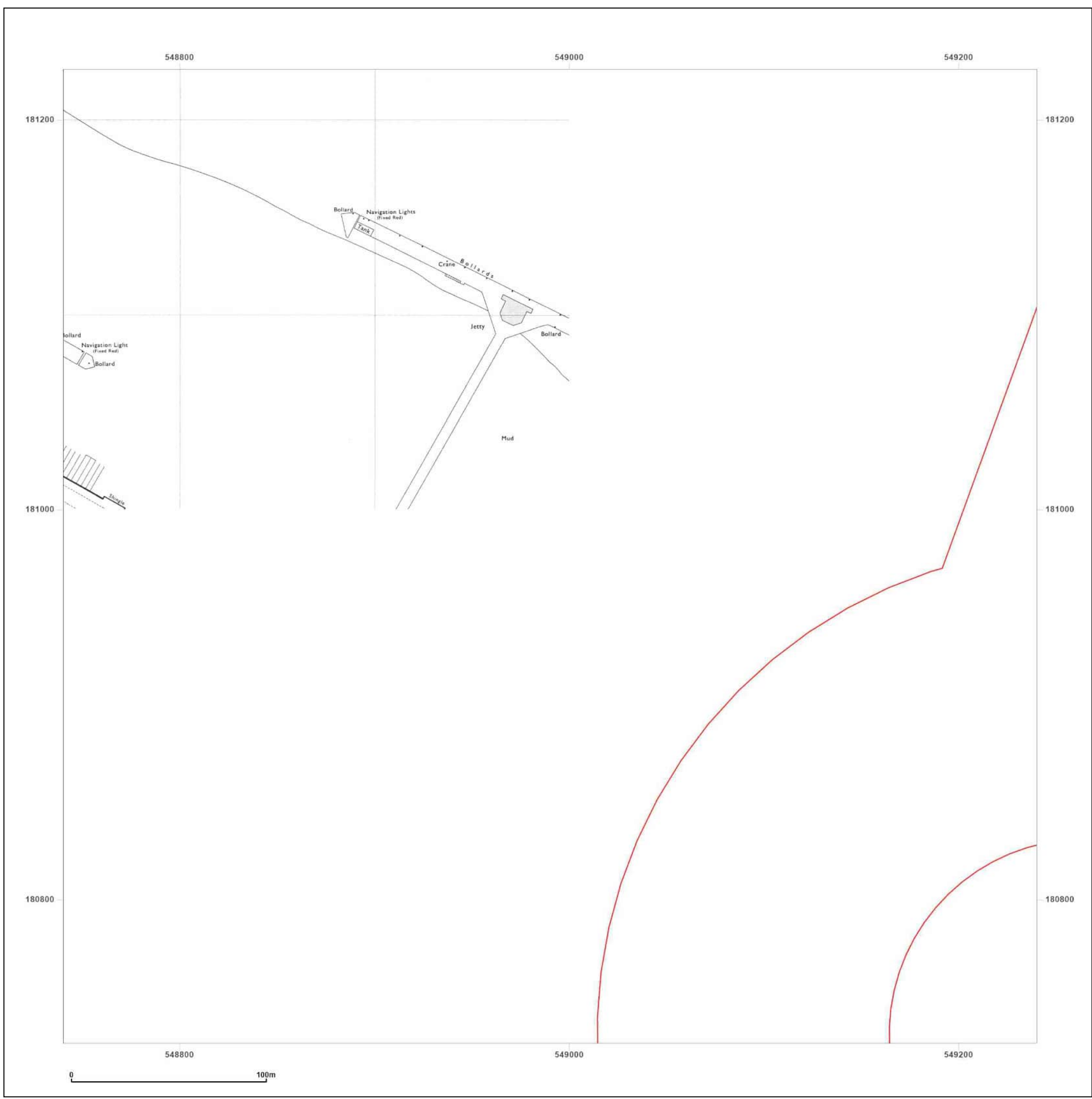


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Production date: 26 October 2023

Map legend available at: [REDACTED]



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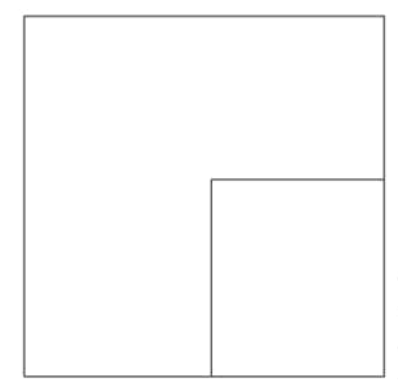
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Report Ref: GS-QCE-212-D95-XTT_1250_1_3
Grid Ref: 548990, 180976

Map Name: National Grid

Map date: 1984

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1968
Revised 1984
Edition N/A
Copyright 1984
Levelled 1968



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Map legend available at: [REDACTED]

Site Details:

549656.6233563919,180548.34
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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_3
Grid Ref: 548990, 180976

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



<p>Surveyed N/A Revised N/A Edition N/A Copyright 1992 Levelled N/A</p>	<p>Surveyed N/A Revised N/A Edition N/A Copyright 1992 Levelled N/A</p>
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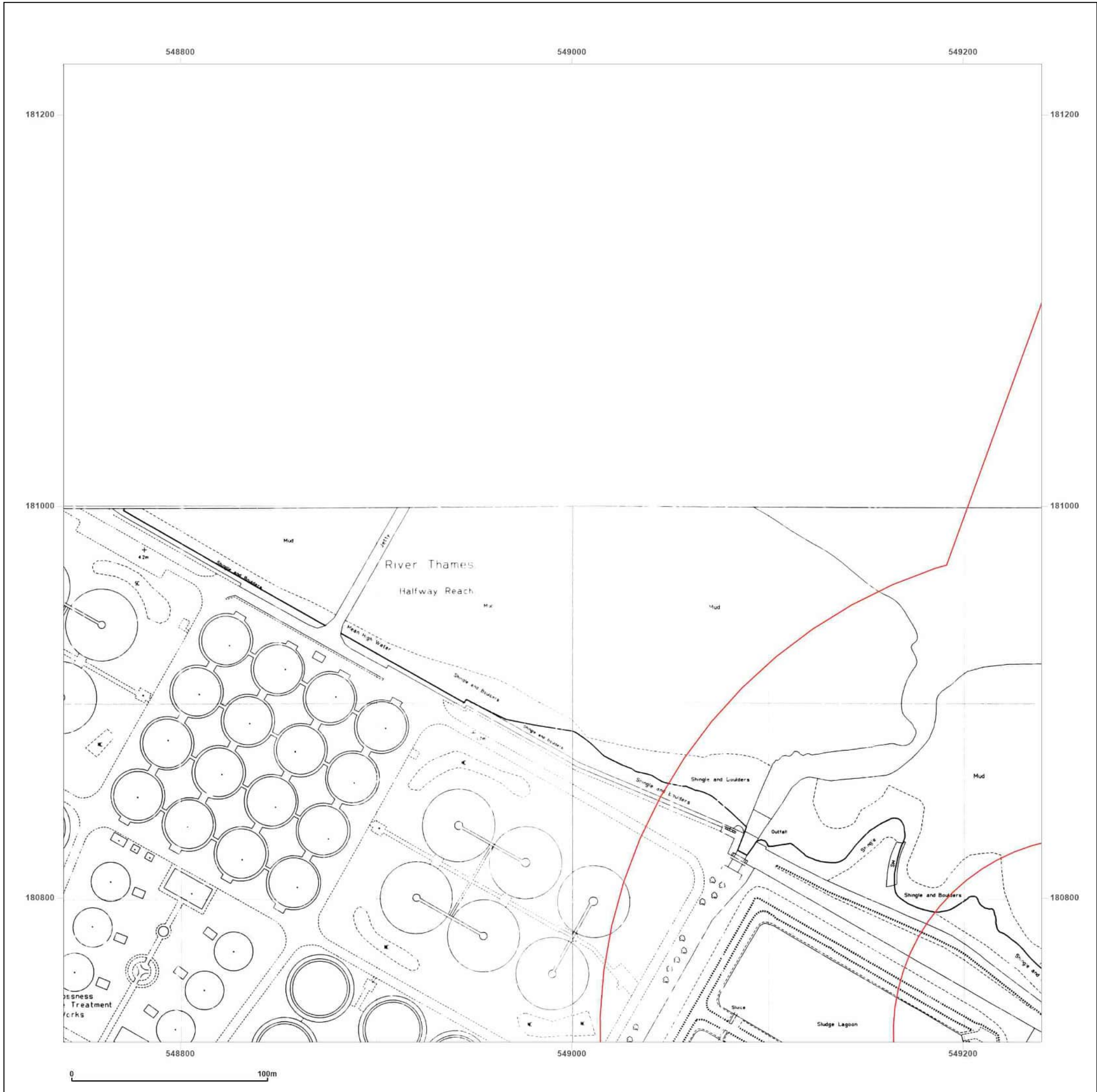


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Site Details:

549656.6233563919,180548.34
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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_1_3
Grid Ref: 548990, 180976

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



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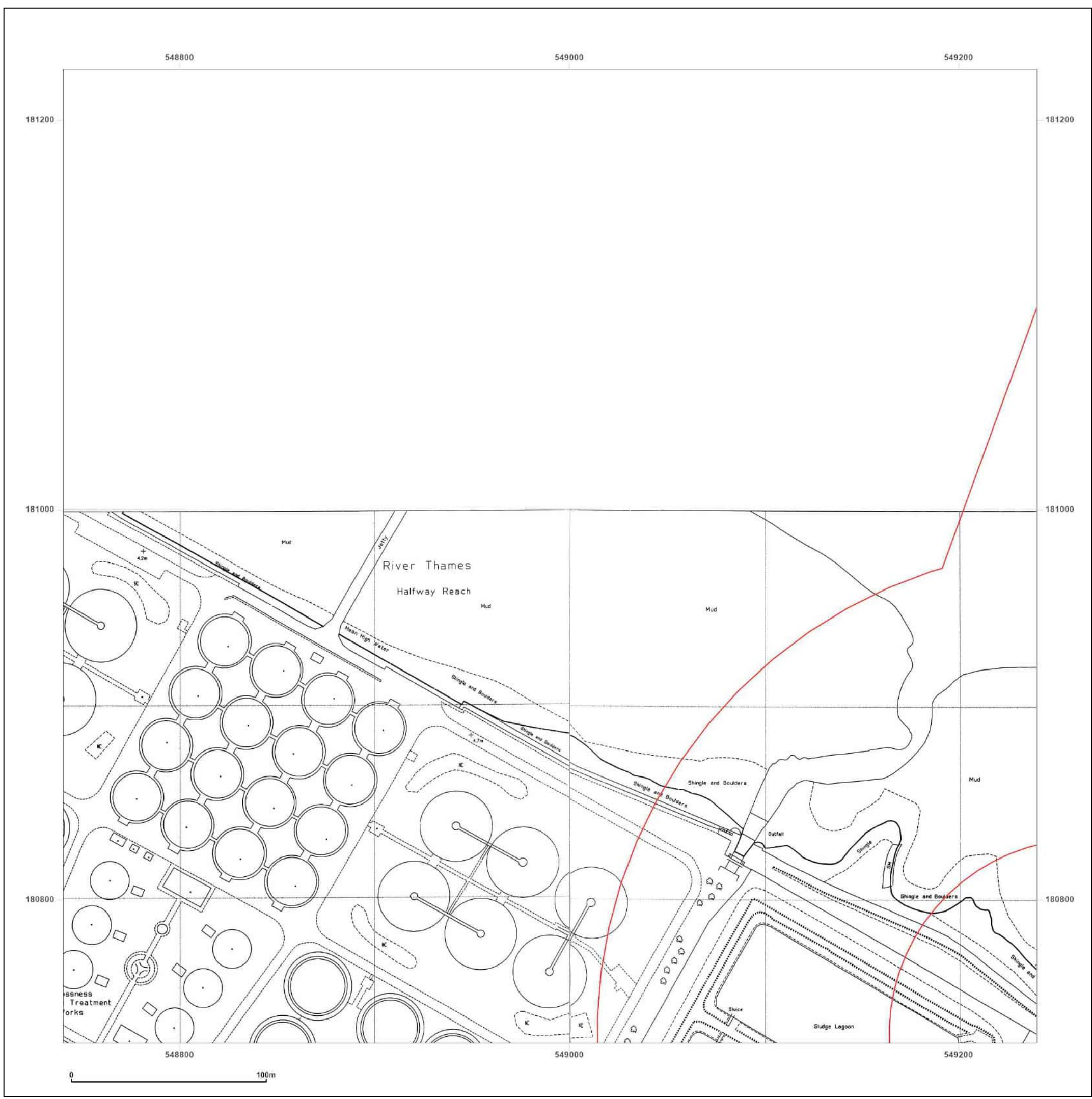


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Site Details:

549656.6233563919,180548.34
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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_2_1
Grid Ref: 549490, 179976

Map Name: National Grid

Map date: 1957

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953

Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953

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Levelled 1953

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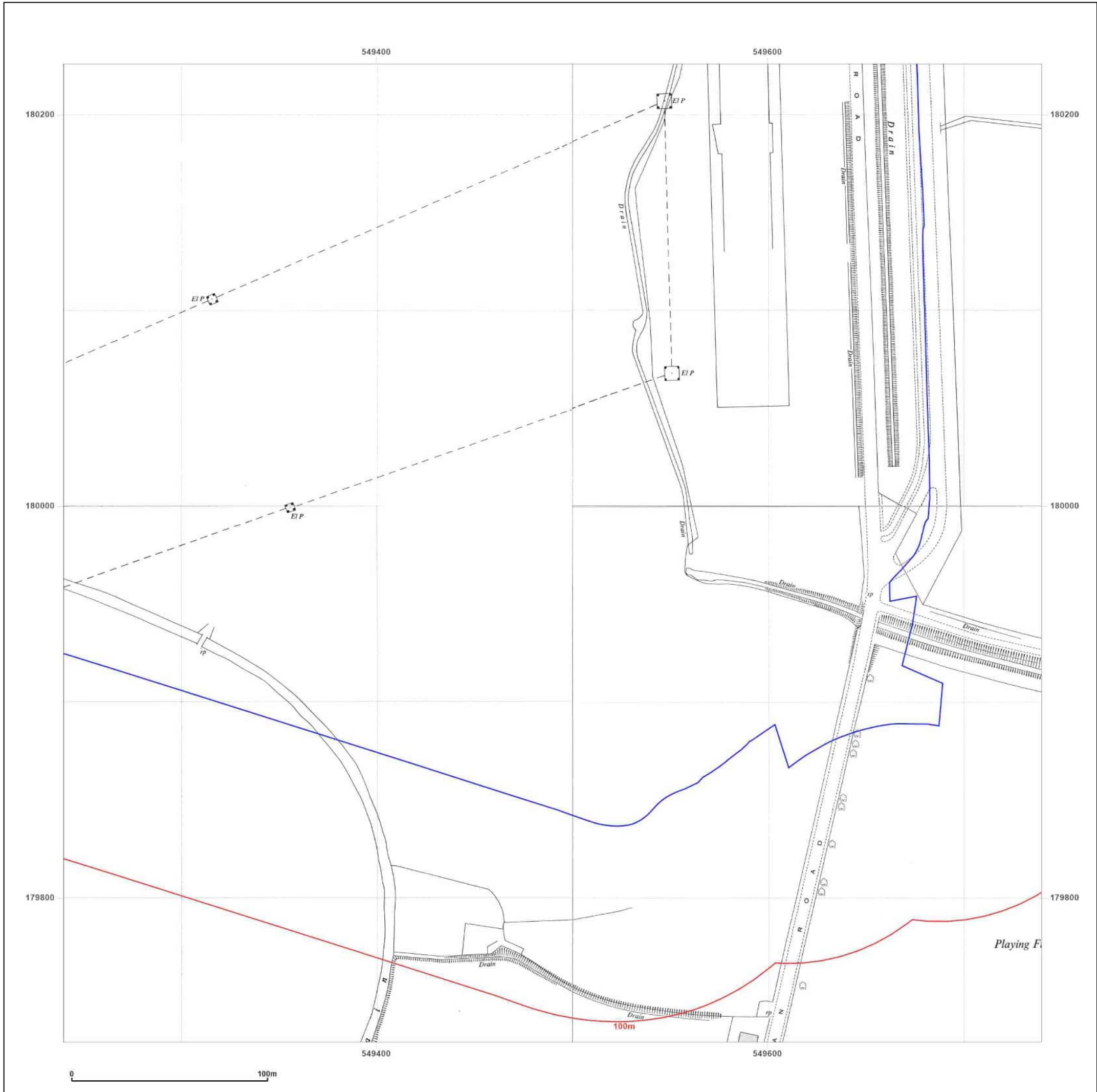


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

549656.6233563919,180548.34
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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_2_1
Grid Ref: 549490, 179976

Map Name: National Grid

Map date: 1958

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 N/A
Revised N/A
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Levelled N/A

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Levelled N/A

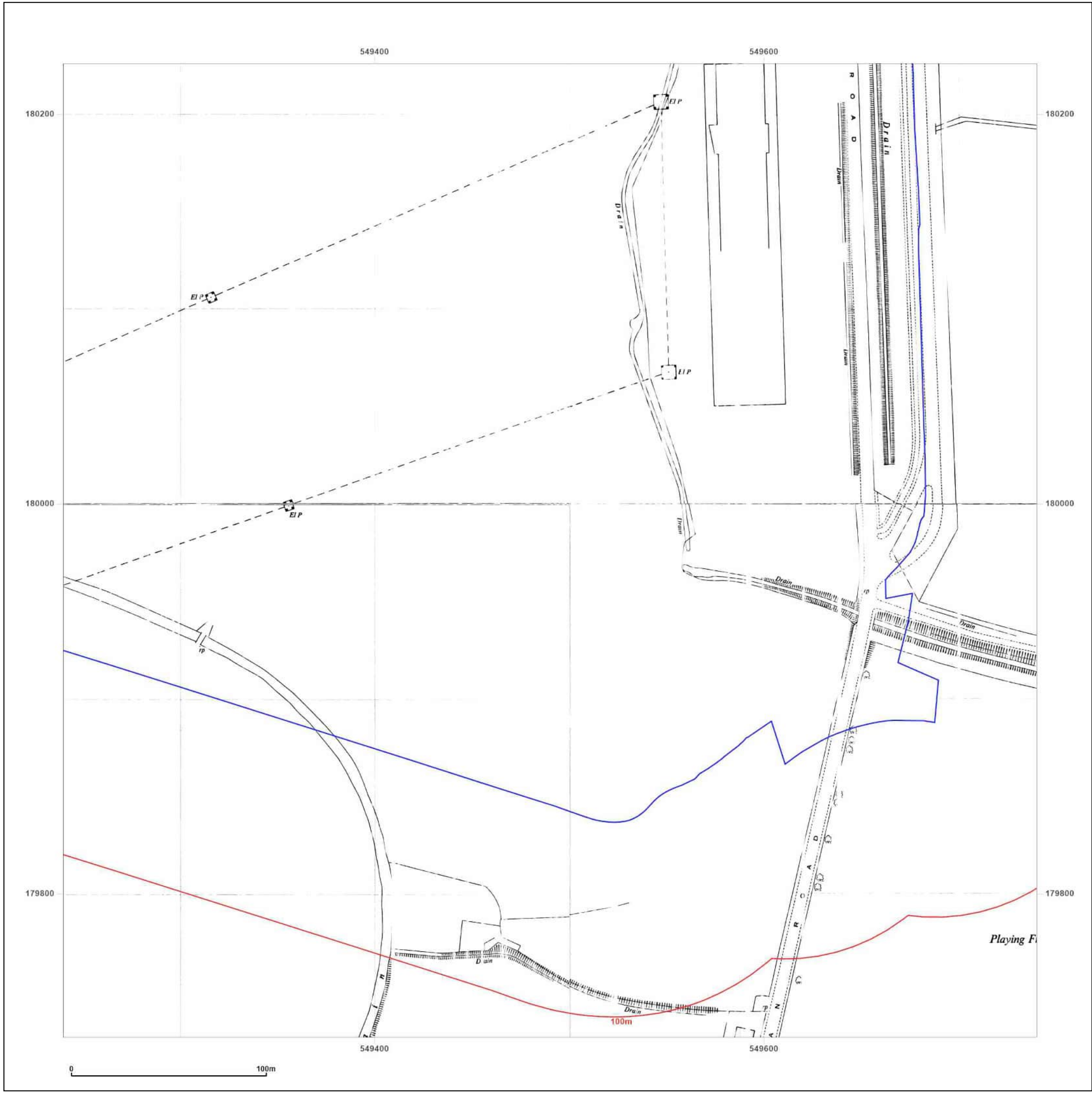


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Production date: 26 October 2023

Map legend available at:
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Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_2_1
Grid Ref: 549490, 179976

Map Name: National Grid

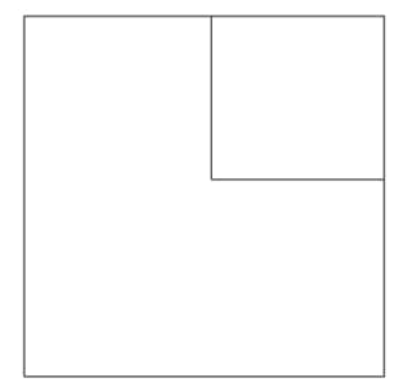
Map date: 1963

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957
Revised 1963
Edition N/A
Copyright 1963
Levelled 1953

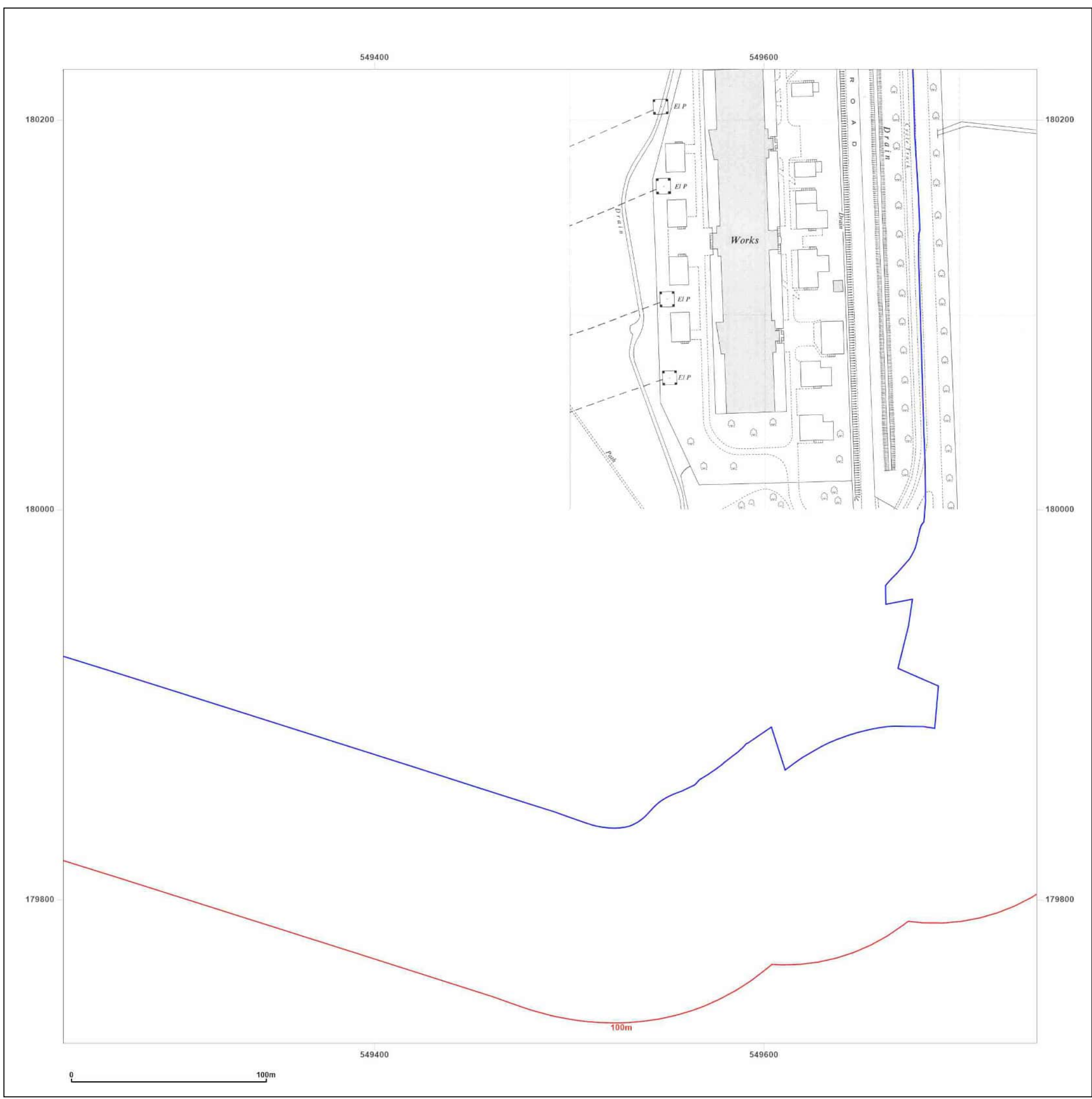


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

549656.6233563919,180548.34
620791927

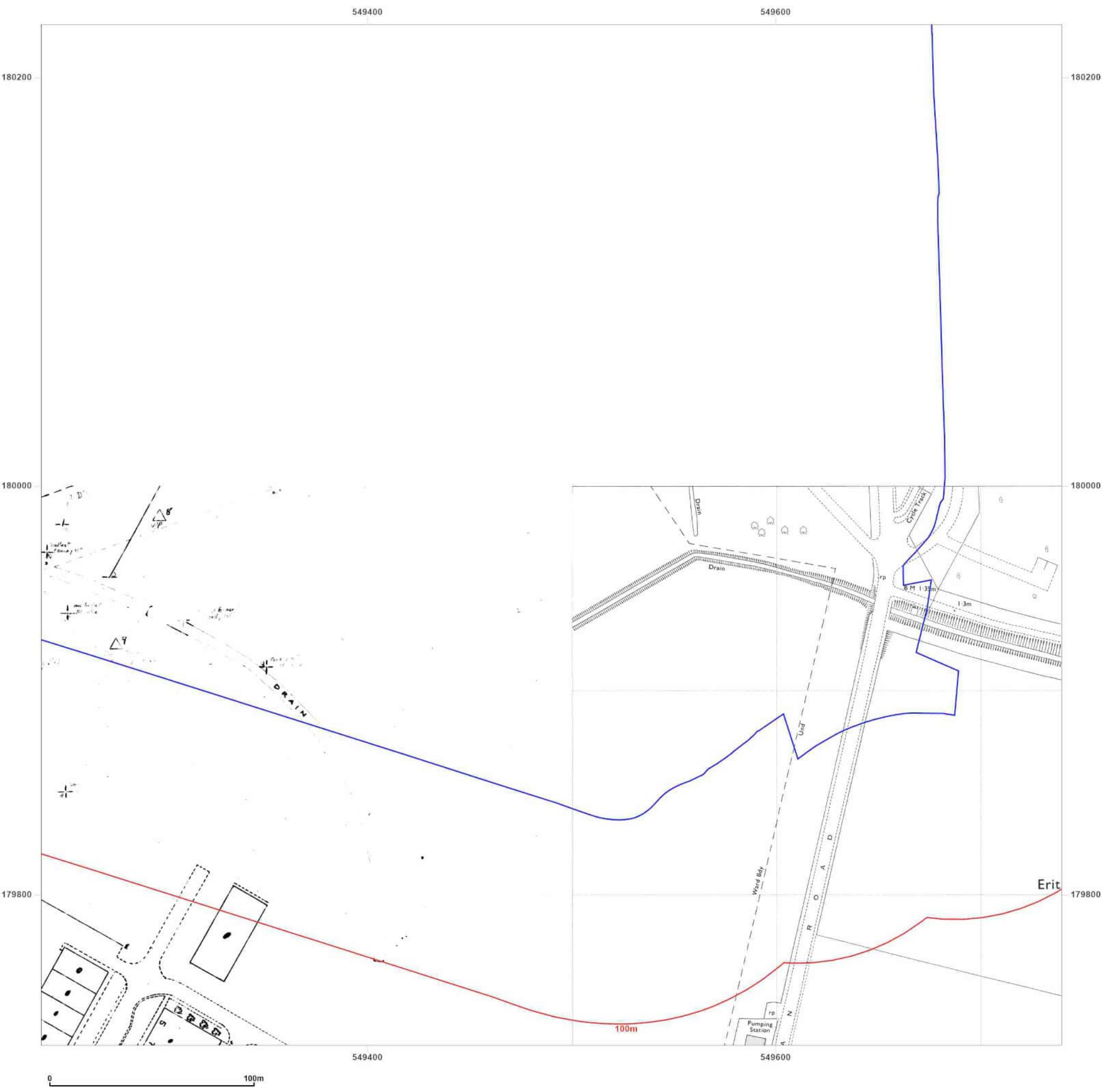
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Report Ref: GS-QCE-212-D95-XTT_1250_2_1
Grid Ref: 549490, 179976

Map Name: National Grid

Map date: 1974-1975

Scale: 1:1,250

Printed at: 1:2,000



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Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_2_1
Grid Ref: 549490, 179976

Map Name: National Grid

Map date: 1976

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957
Revised 1975
Edition N/A
Copyright 1976
Levelled 1968

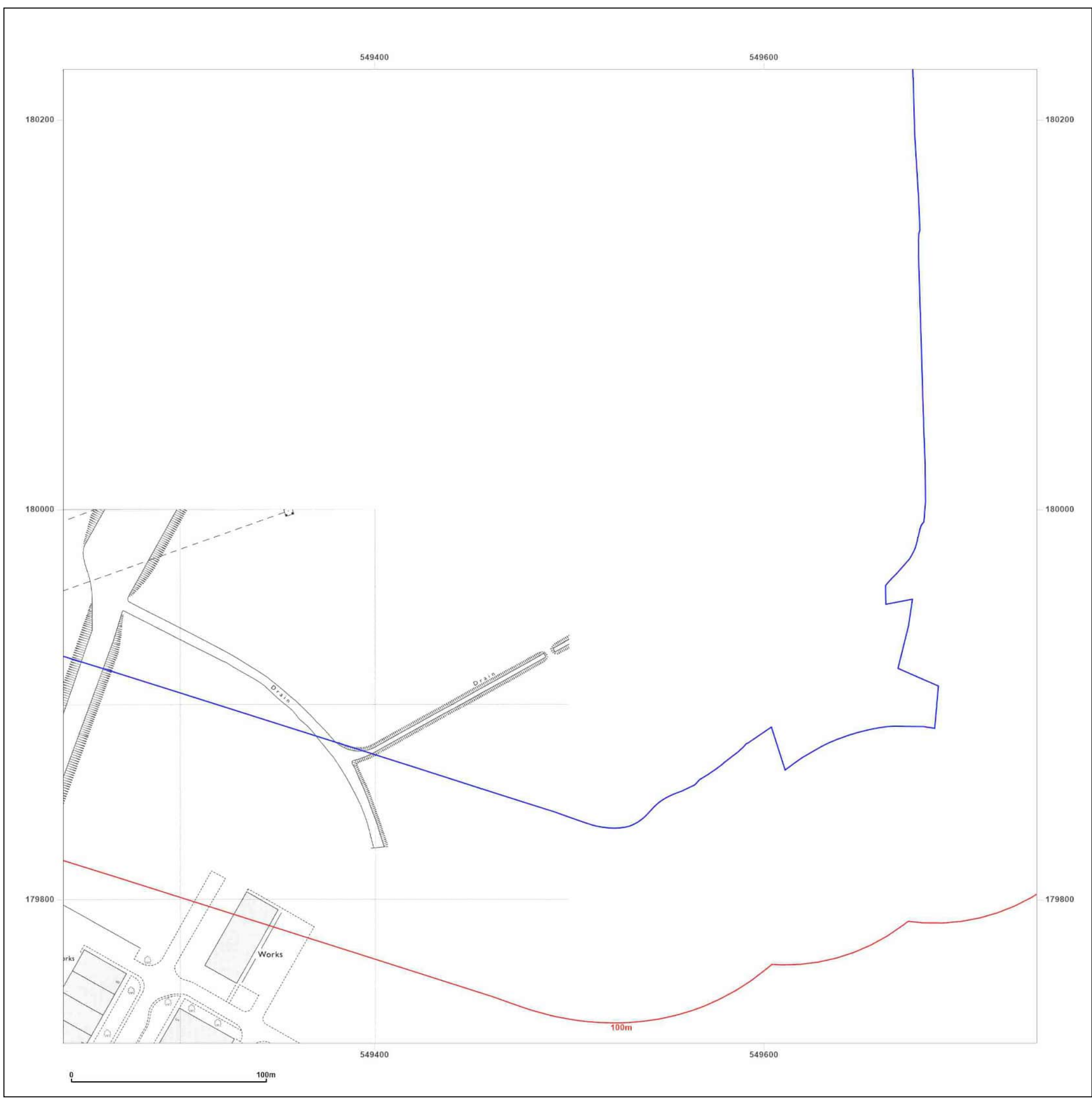


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Map Name: National Grid

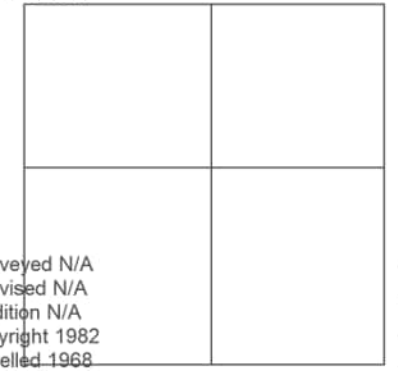
Map date: 1982-1983

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1983
Levelled 1977



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1982
Levelled 1968

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

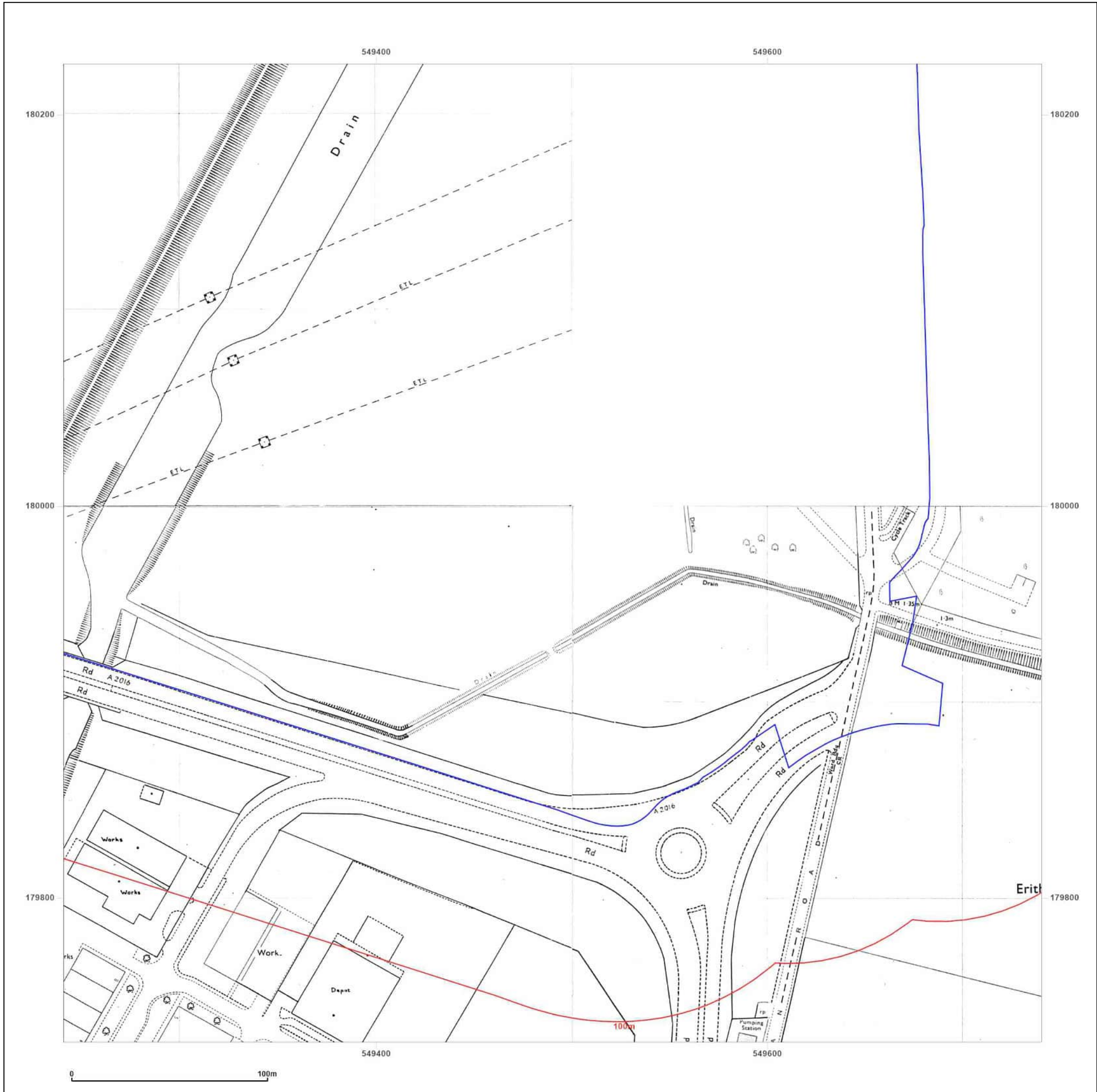


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Production date: 26 October 2023

Map legend available at: [REDACTED]

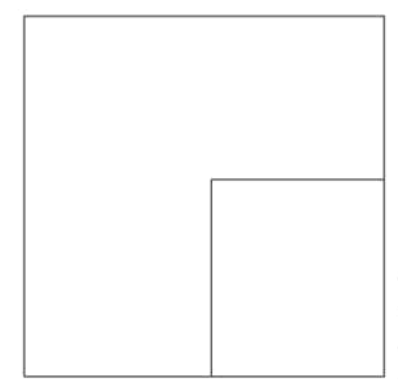
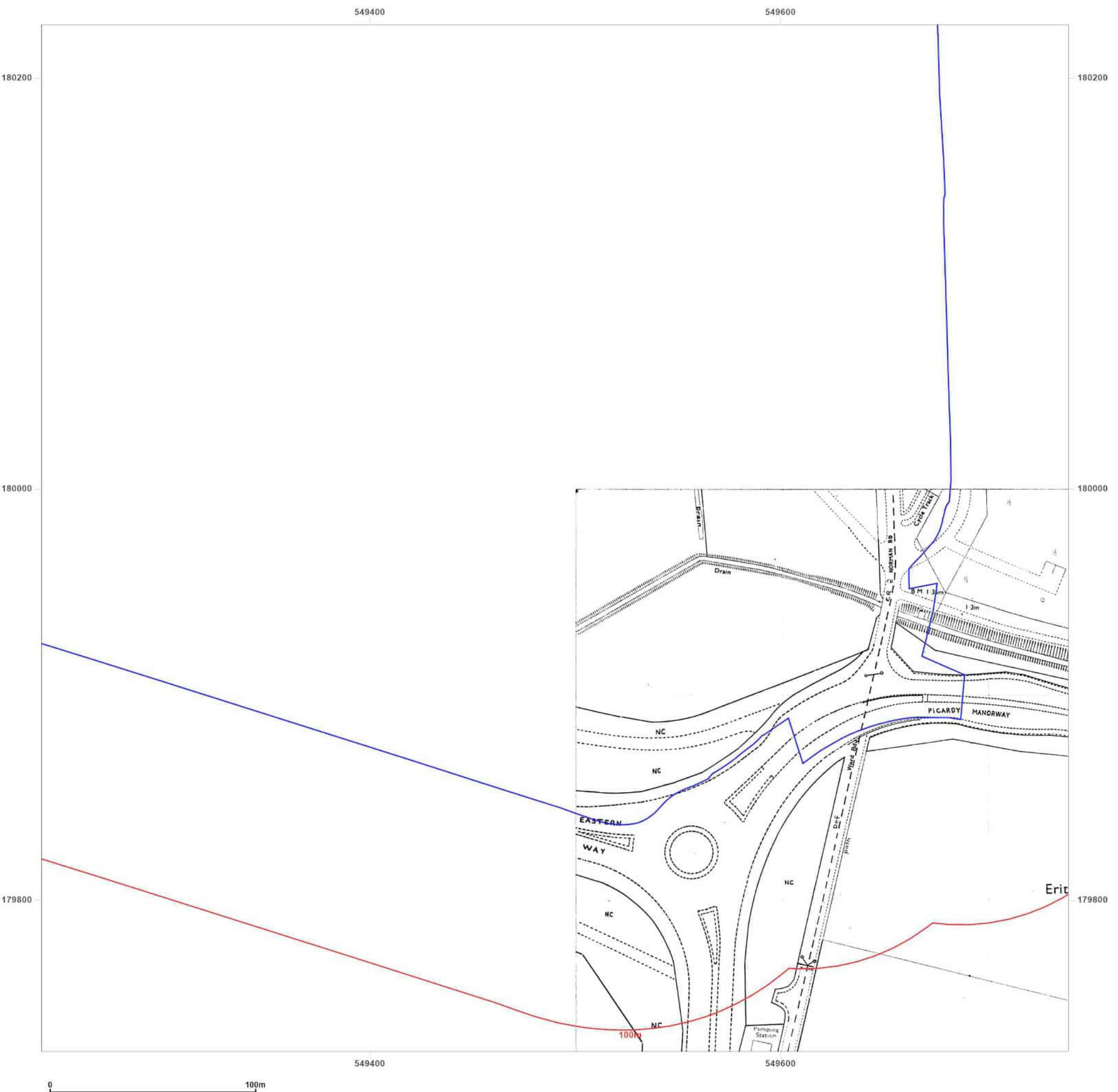
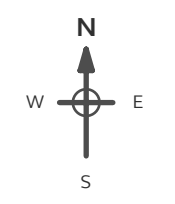


Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_2_1
Grid Ref: 549490, 179976

Map Name: National Grid
Map date: 1985
Scale: 1:1,250
Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1985
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Map legend available at: [REDACTED]

Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_2_1
Grid Ref: 549490, 179976

Map Name: National Grid

Map date: 1991

Scale: 1:1,250

Printed at: 1:2,000



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

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

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Revised N/A
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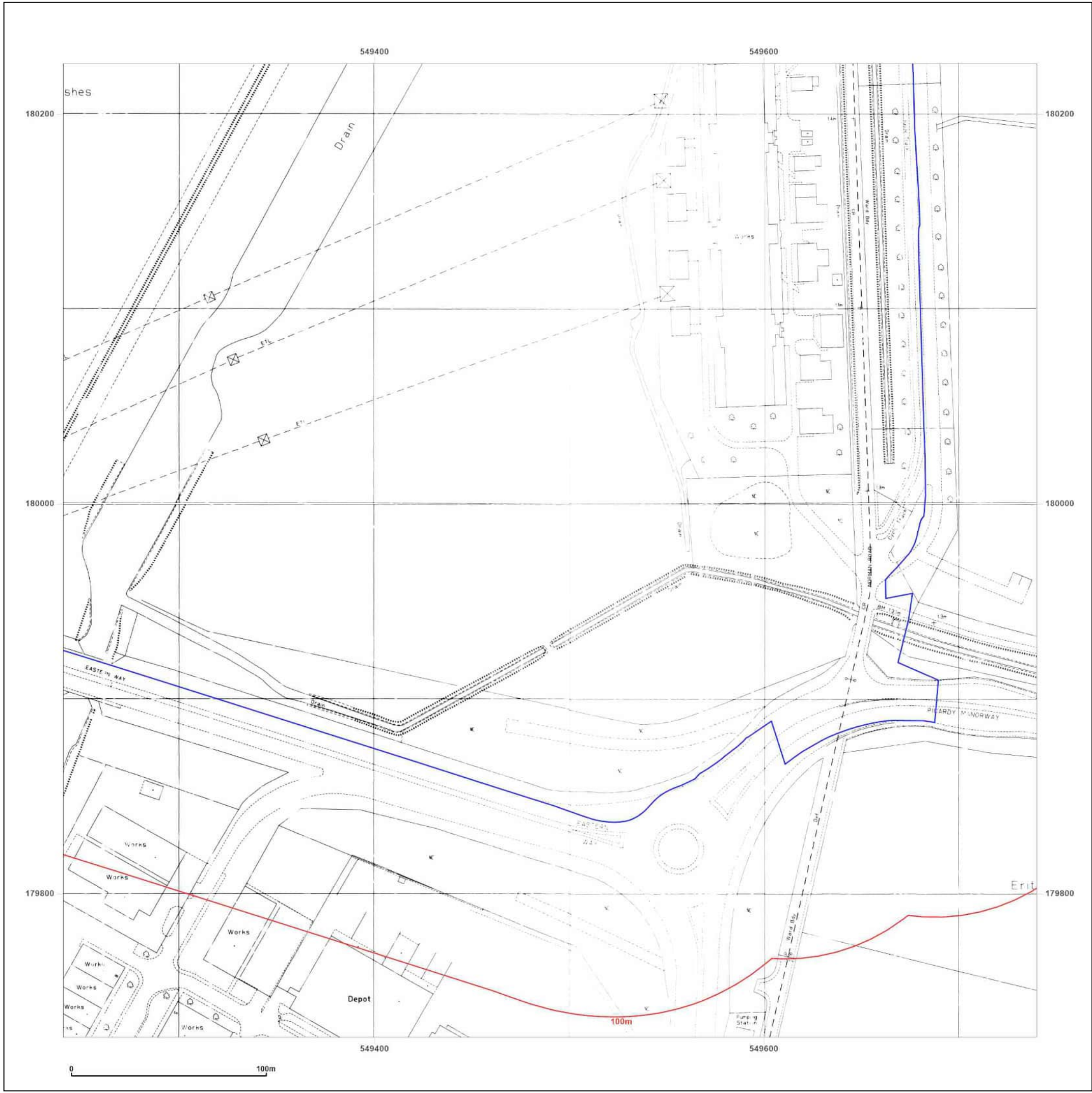


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Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_2_2
Grid Ref: 549490, 180476

Map Name: National Grid

Map date: 1957

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953

Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953

Surveyed 1957
Revised 1957
Edition N/A
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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_2_2
Grid Ref: 549490, 180476

Map Name: National Grid

Map date: 1958

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 N/A Revised N/A Edition N/A Copyright N/A Levelled N/A
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Map legend available at: [REDACTED]



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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_2_2
Grid Ref: 549490, 180476

Map Name: National Grid

Map date: 1963-1968

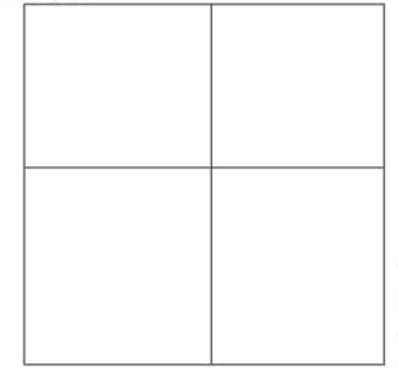
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Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1957
Revised 1963
Edition N/A
Copyright 1963
Levelled 1953



Surveyed 1957
Revised 1963
Edition N/A
Copyright 1963
Levelled 1953

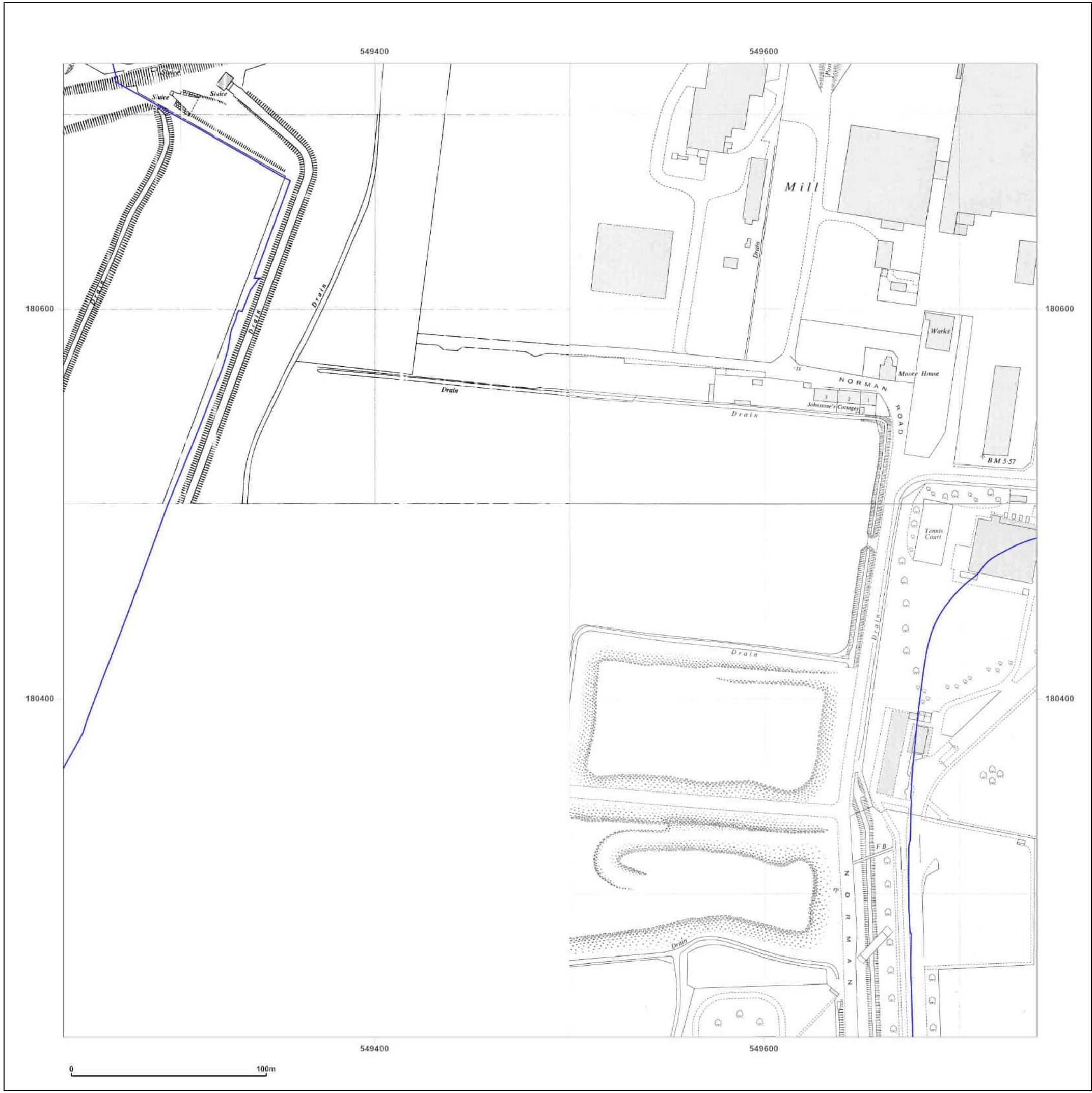


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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_2_2
Grid Ref: 549490, 180476

Map Name: National Grid

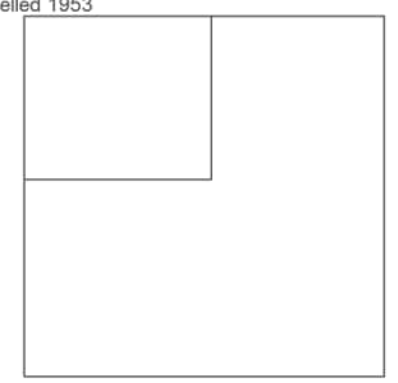
Map date: 1969

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1968
Revised 1968
Edition N/A
Copyright 1969
Levelled 1953

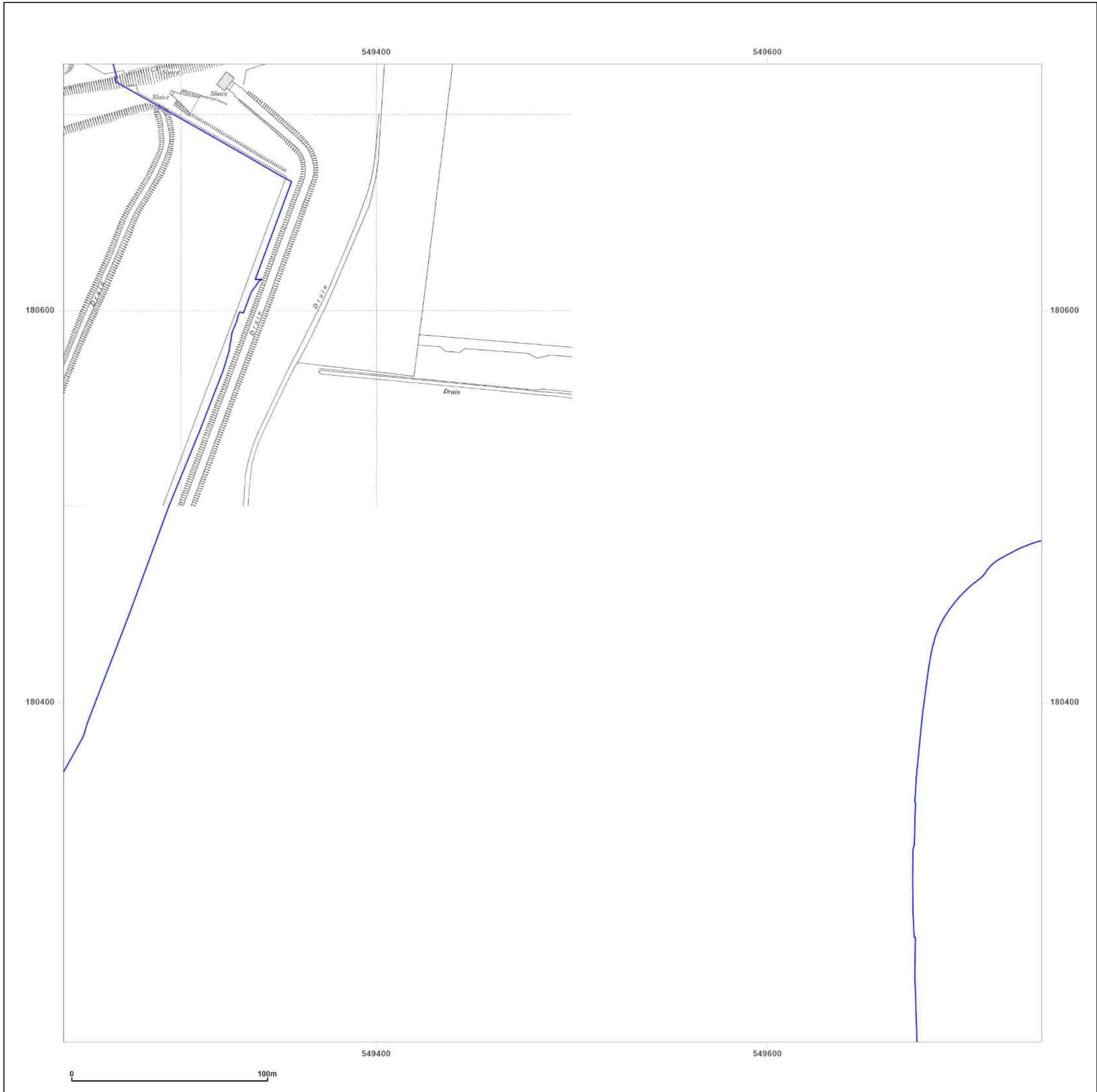


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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_2_2
Grid Ref: 549490, 180476

Map Name: National Grid

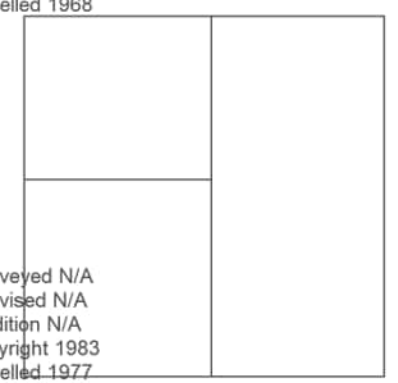
Map date: 1983-1984

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1984
Edition N/A
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1983
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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_2_2
Grid Ref: 549490, 180476

Map Name: National Grid

Map date: 1991

Scale: 1:1,250

Printed at: 1:2,000



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

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

Surveyed N/A
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Revised N/A
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Copyright 1991
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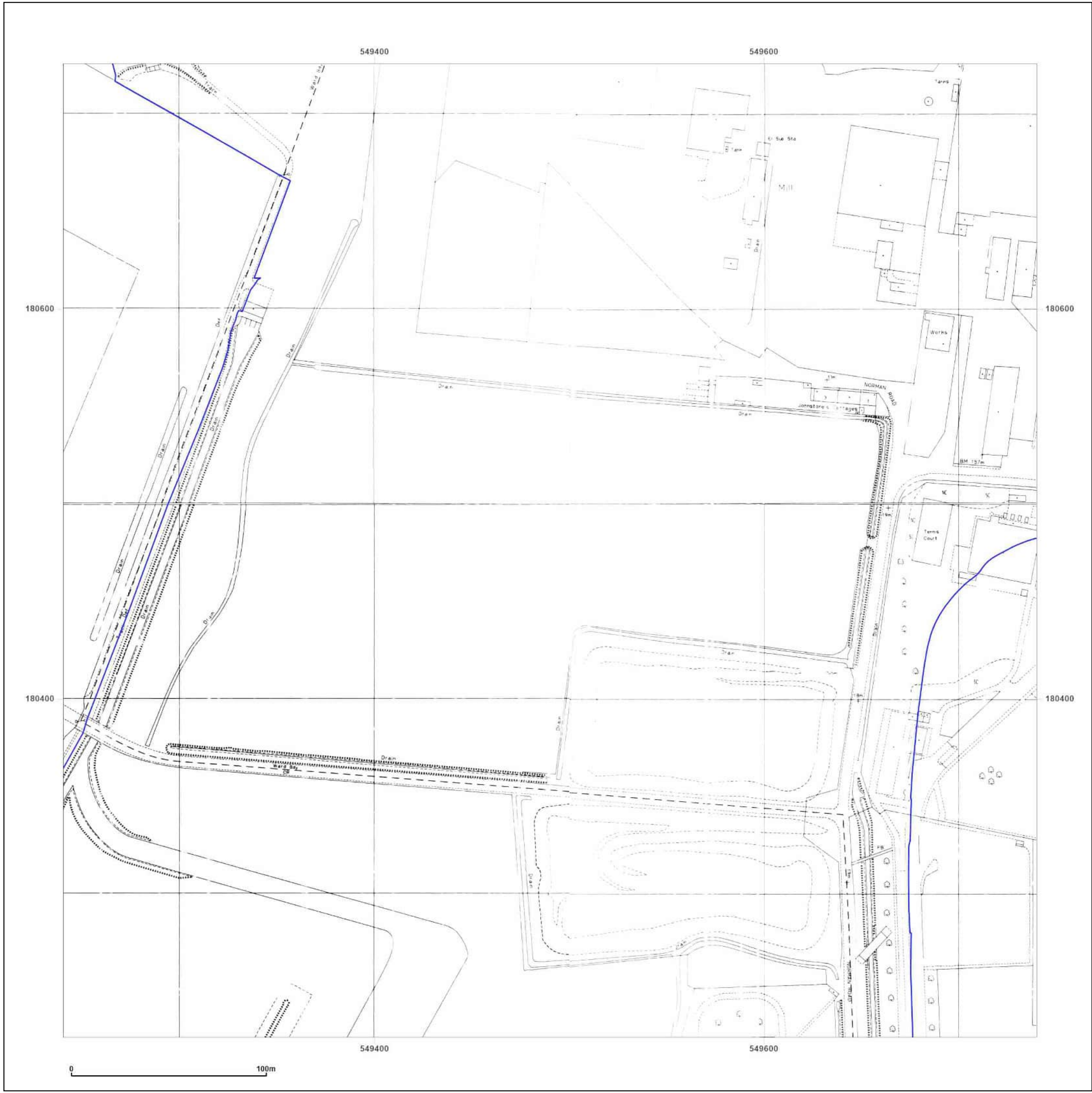


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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_2_2
Grid Ref: 549490, 180476

Map Name: National Grid

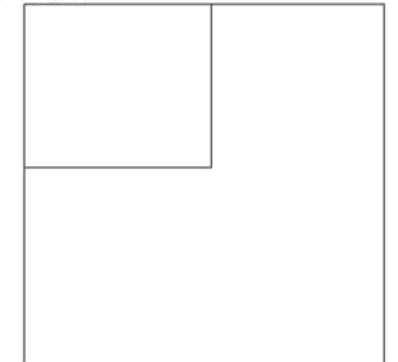
Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



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

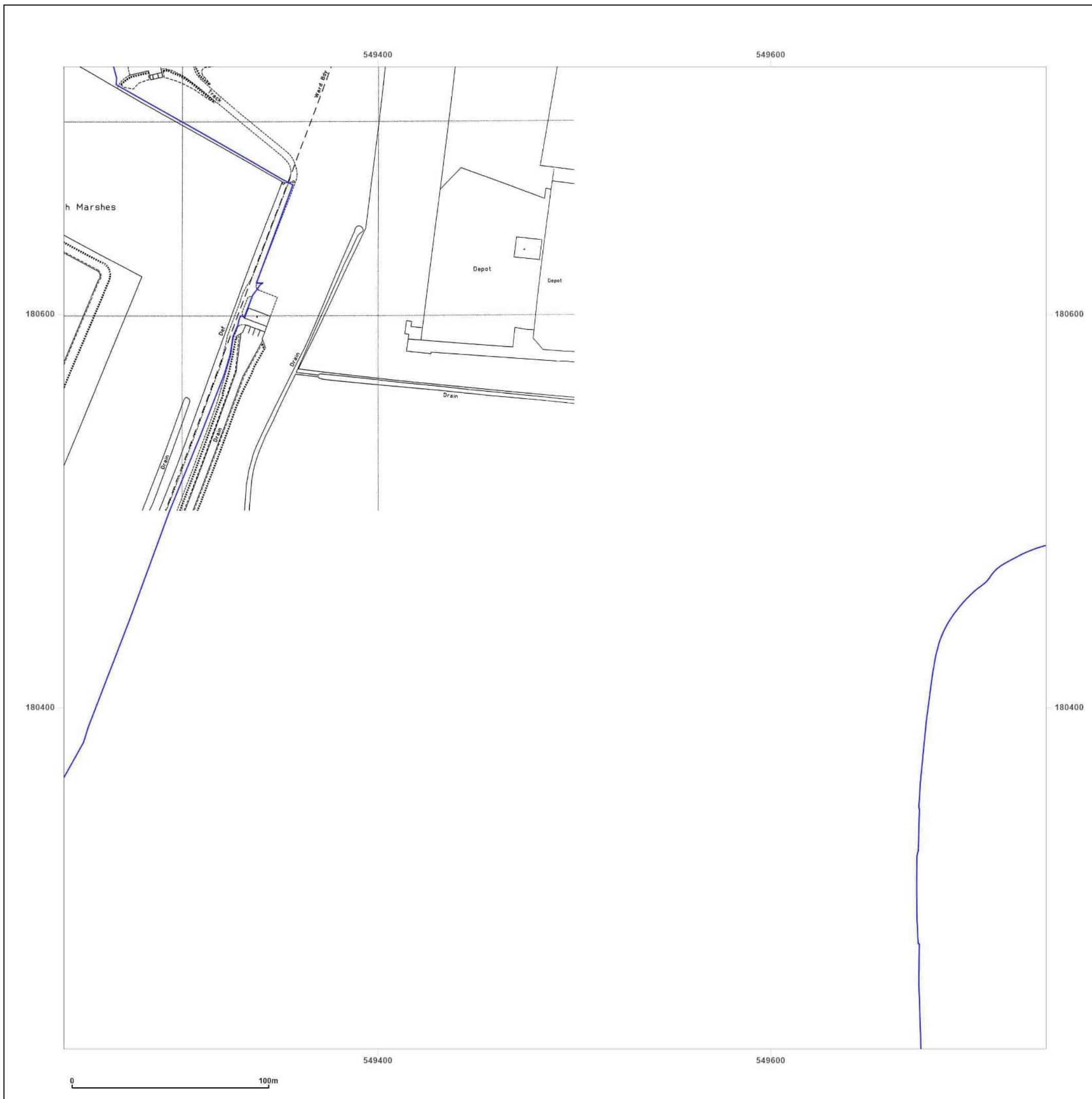


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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_2_3
Grid Ref: 549490, 180976

Map Name: National Grid

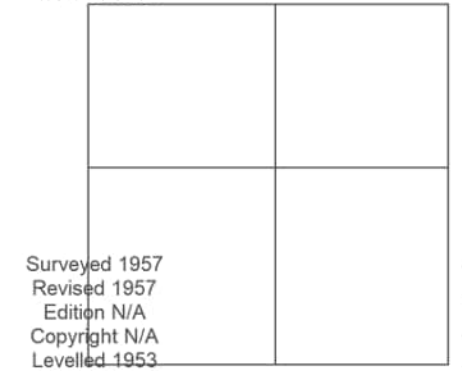
Map date: 1957-1962

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1961 Revised 1961 Edition N/A Copyright 1962 Levelled 1948	Surveyed 1961 Revised 1961 Edition N/A Copyright 1962 Levelled 1948
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Surveyed 1957 Revised 1957 Edition N/A Copyright N/A Levelled 1953	Surveyed 1957 Revised 1957 Edition N/A Copyright N/A Levelled 1953
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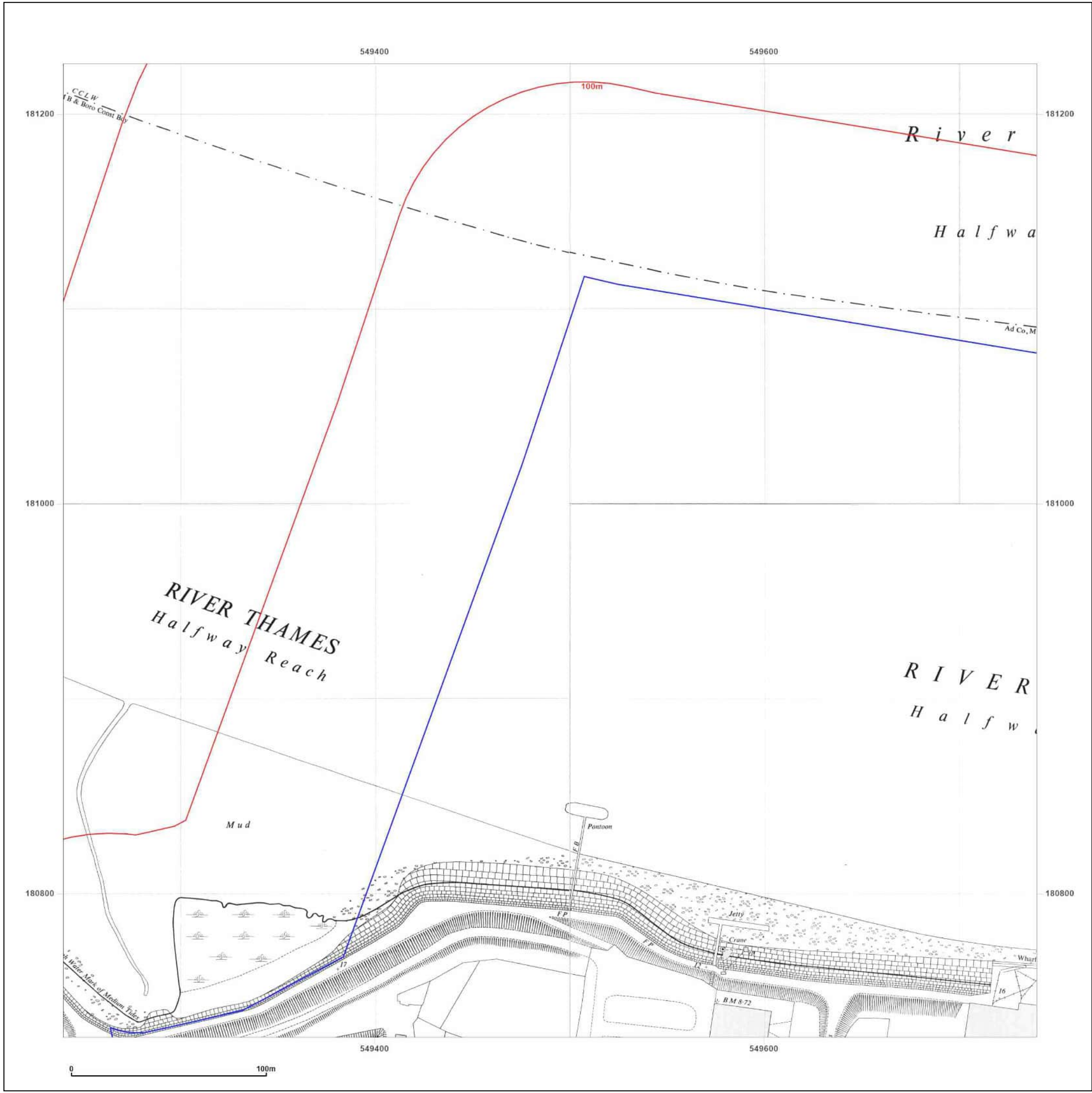


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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_2_3
Grid Ref: 549490, 180976

Map Name: National Grid

Map date: 1958-1962

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1961
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Edition N/A
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Levelled 1948

Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948

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

Surveyed N/A
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Edition N/A
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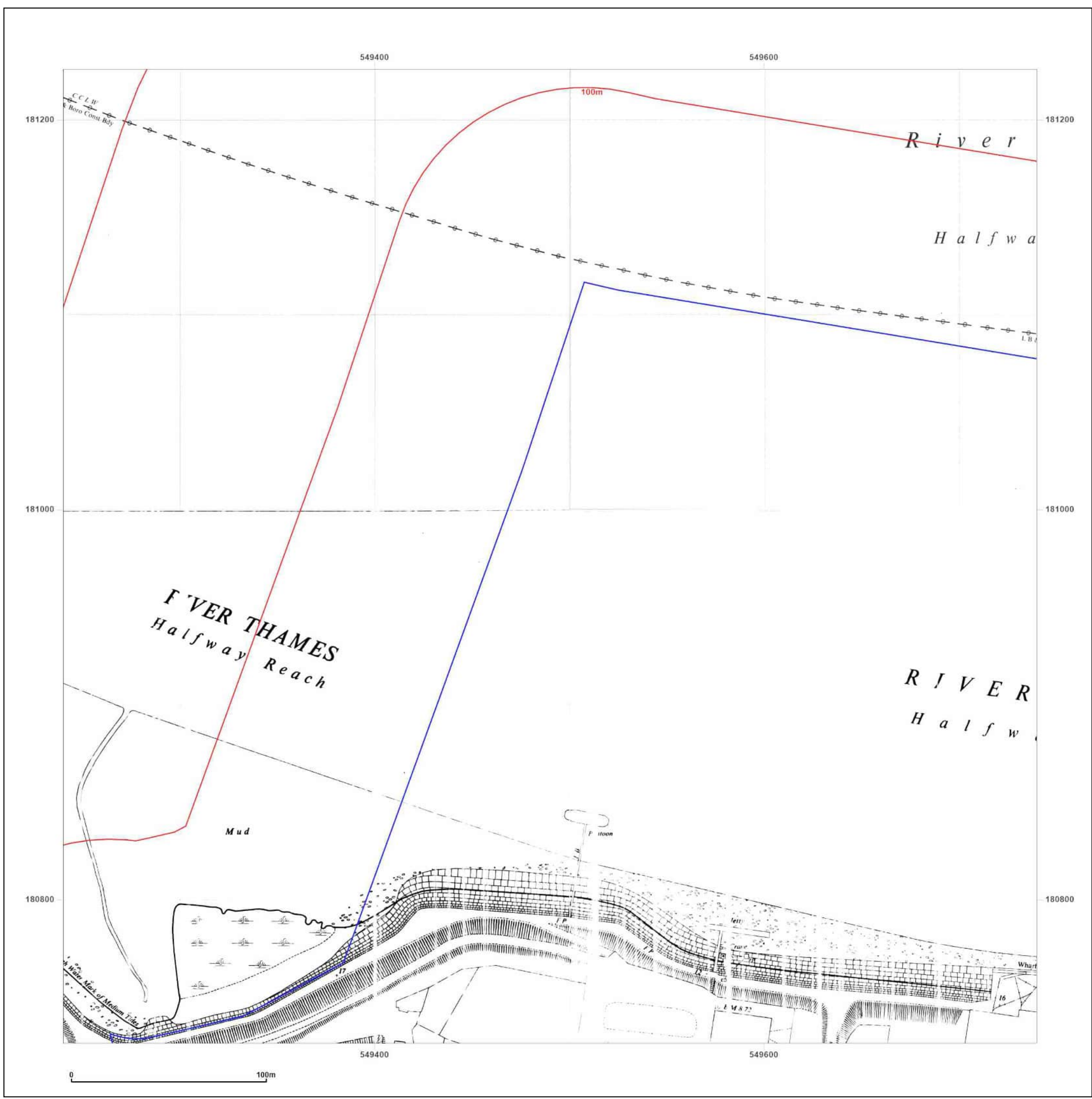


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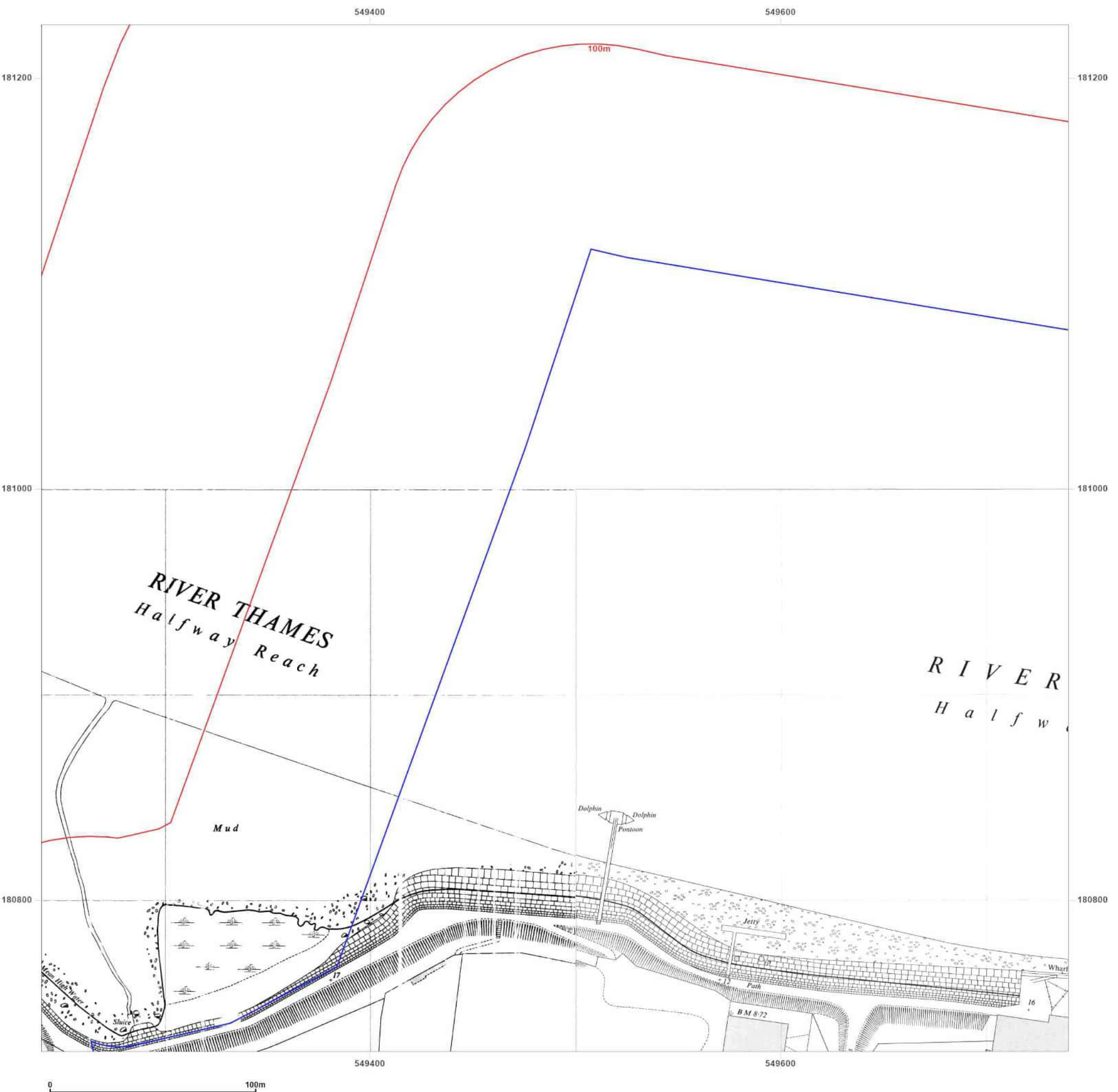
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Report Ref: GS-QCE-212-D95-XTT_1250_2_3
Grid Ref: 549490, 180976

Map Name: National Grid

Map date: 1963-1968

Scale: 1:1,250

Printed at: 1:2,000



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Map legend available at: [REDACTED]

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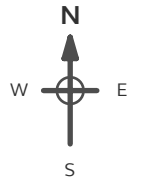
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Report Ref: GS-QCE-212-D95-XTT_1250_2_3
Grid Ref: 549490, 180976

Map Name: National Grid

Map date: 1969

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1968
Revised 1968
Edition N/A
Copyright 1969
Levelled 1953

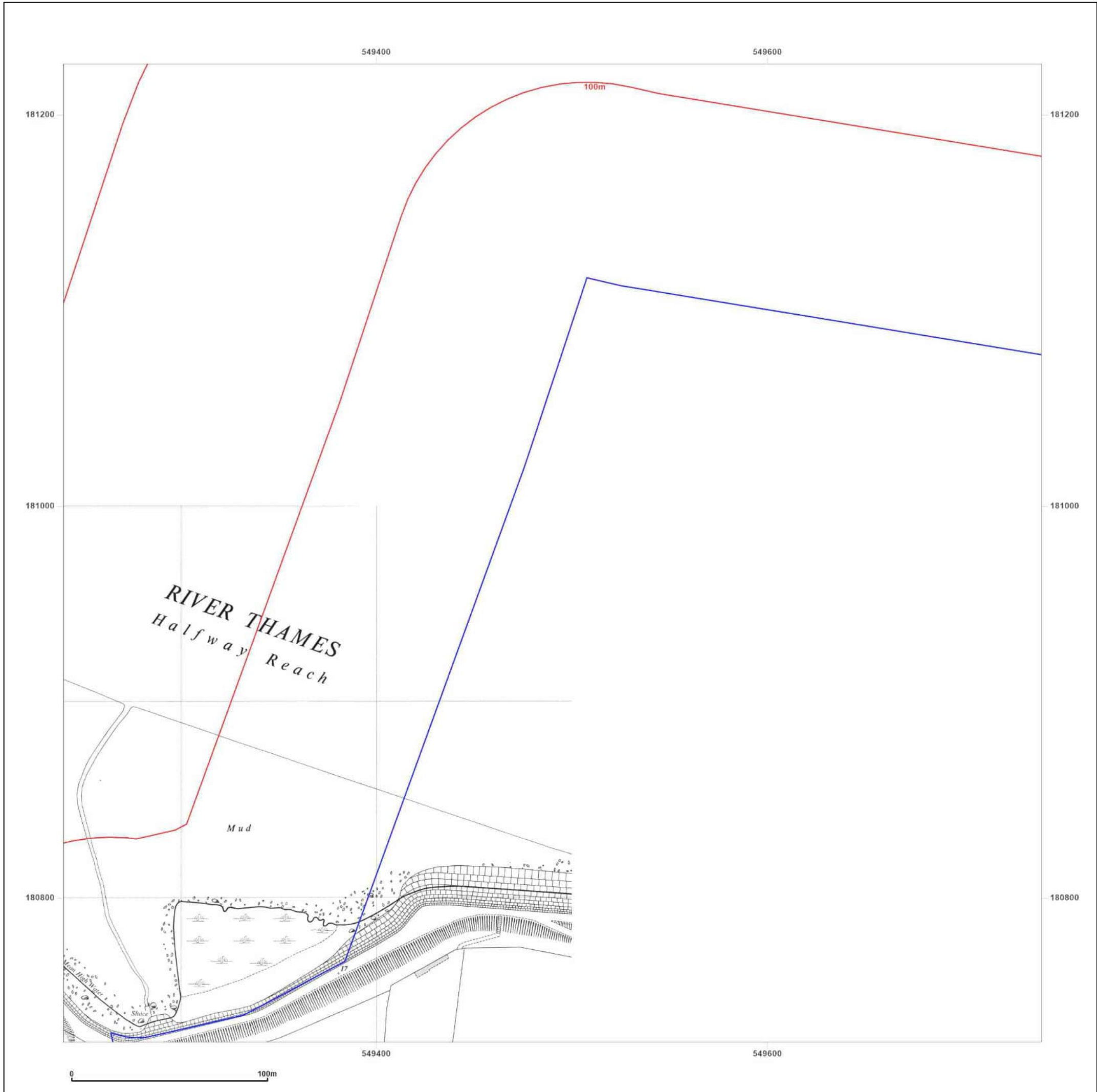


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Production date: 26 October 2023

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_2_3
Grid Ref: 549490, 180976

Map Name: National Grid

Map date: 1984

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1968
Revised 1984
Edition N/A
Copyright 1984
Levelled 1968

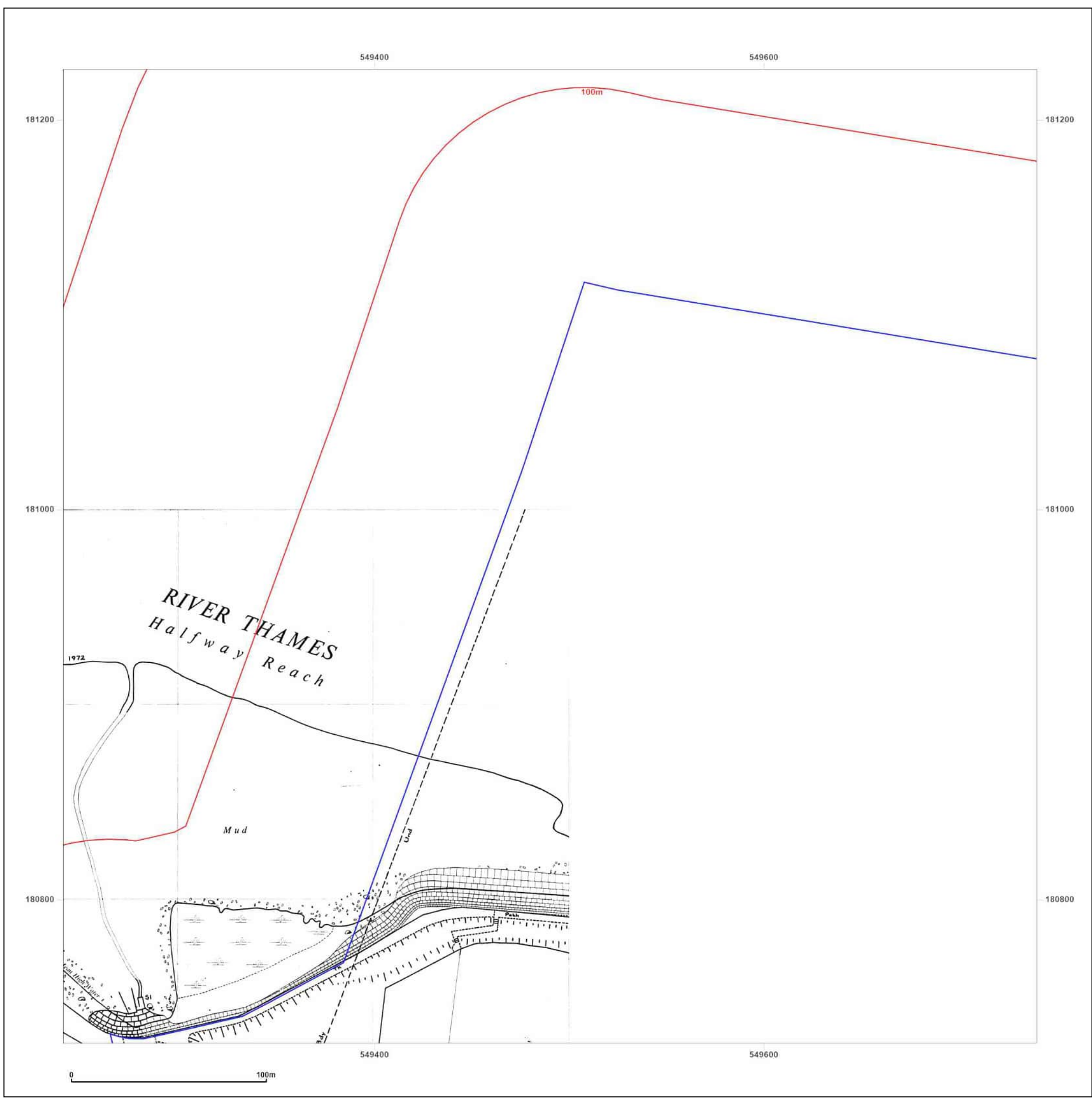


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Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_2_3
Grid Ref: 549490, 180976

Map Name: National Grid

Map date: 1991

Scale: 1:1,250

Printed at: 1:2,000



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

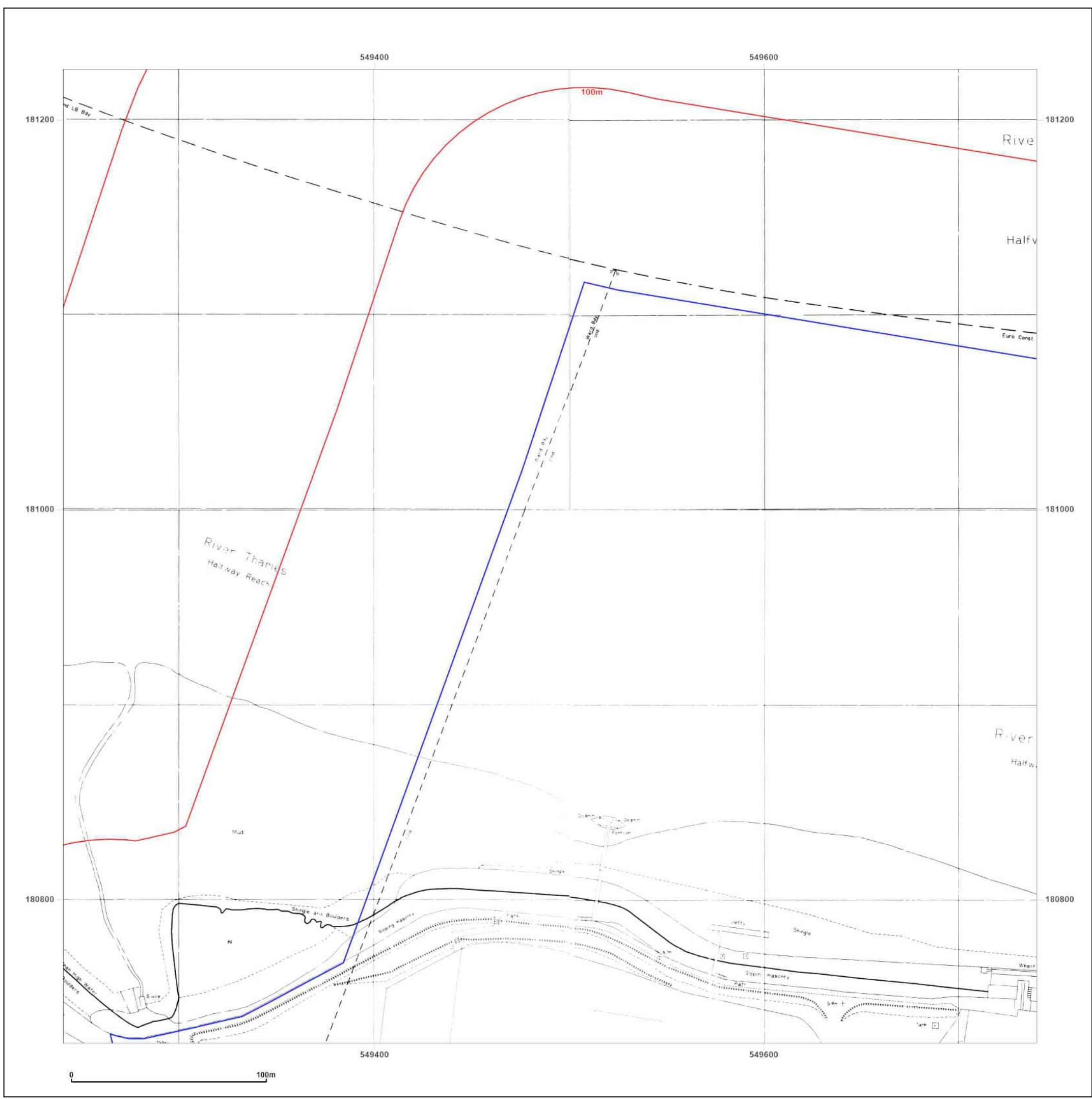


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_2_3
Grid Ref: 549490, 180976

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



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

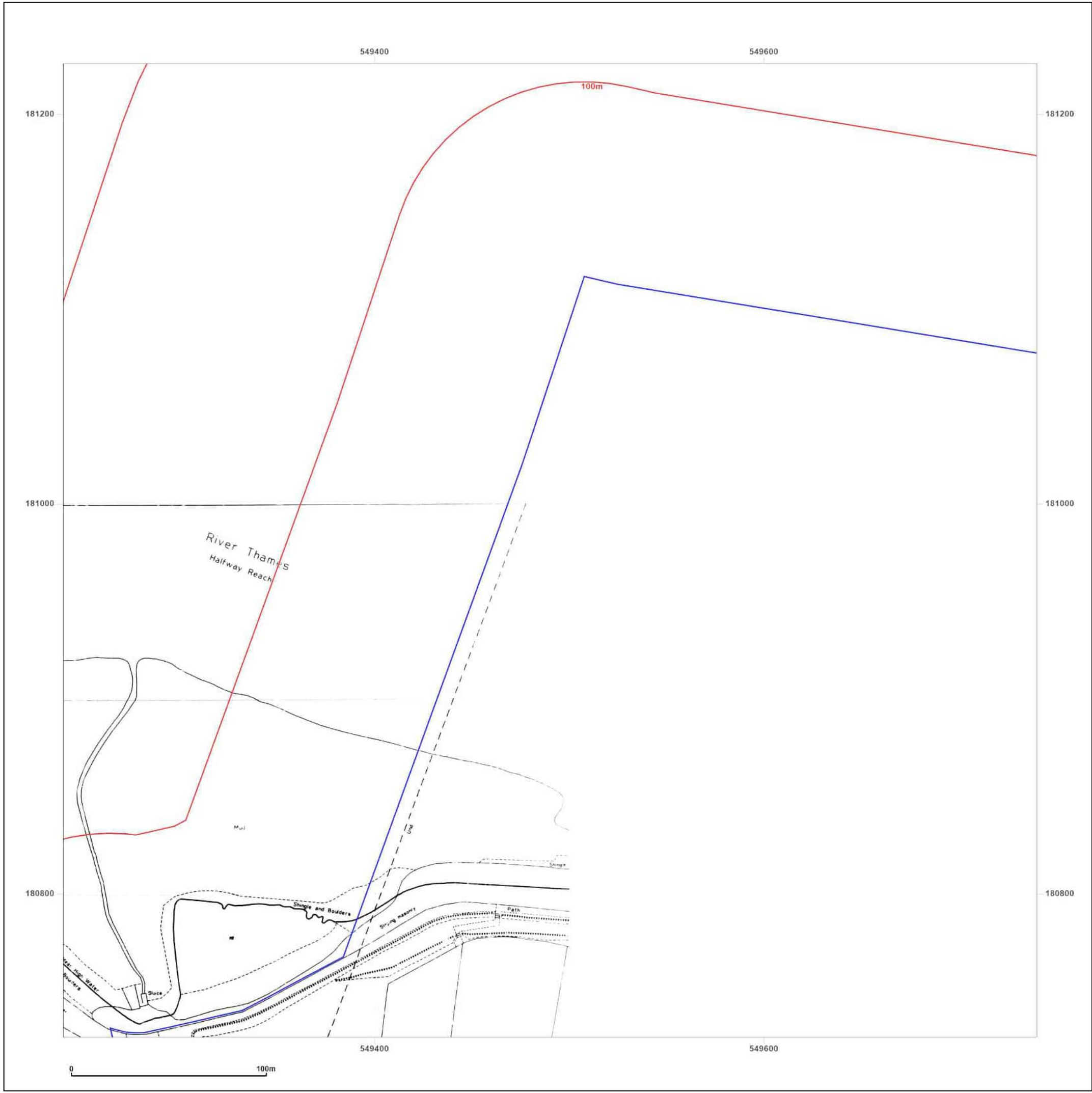


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Production date: 26 October 2023

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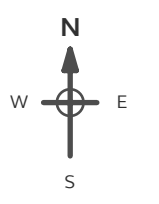


Site Details:

549656.6233563919,180548.34
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Report Ref: GS-QCE-212-D95-XTT_1250_2_3
Grid Ref: 549490, 180976

Map Name: National Grid
Map date: 1992
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Surveyed N/A
Revised N/A
Edition N/A
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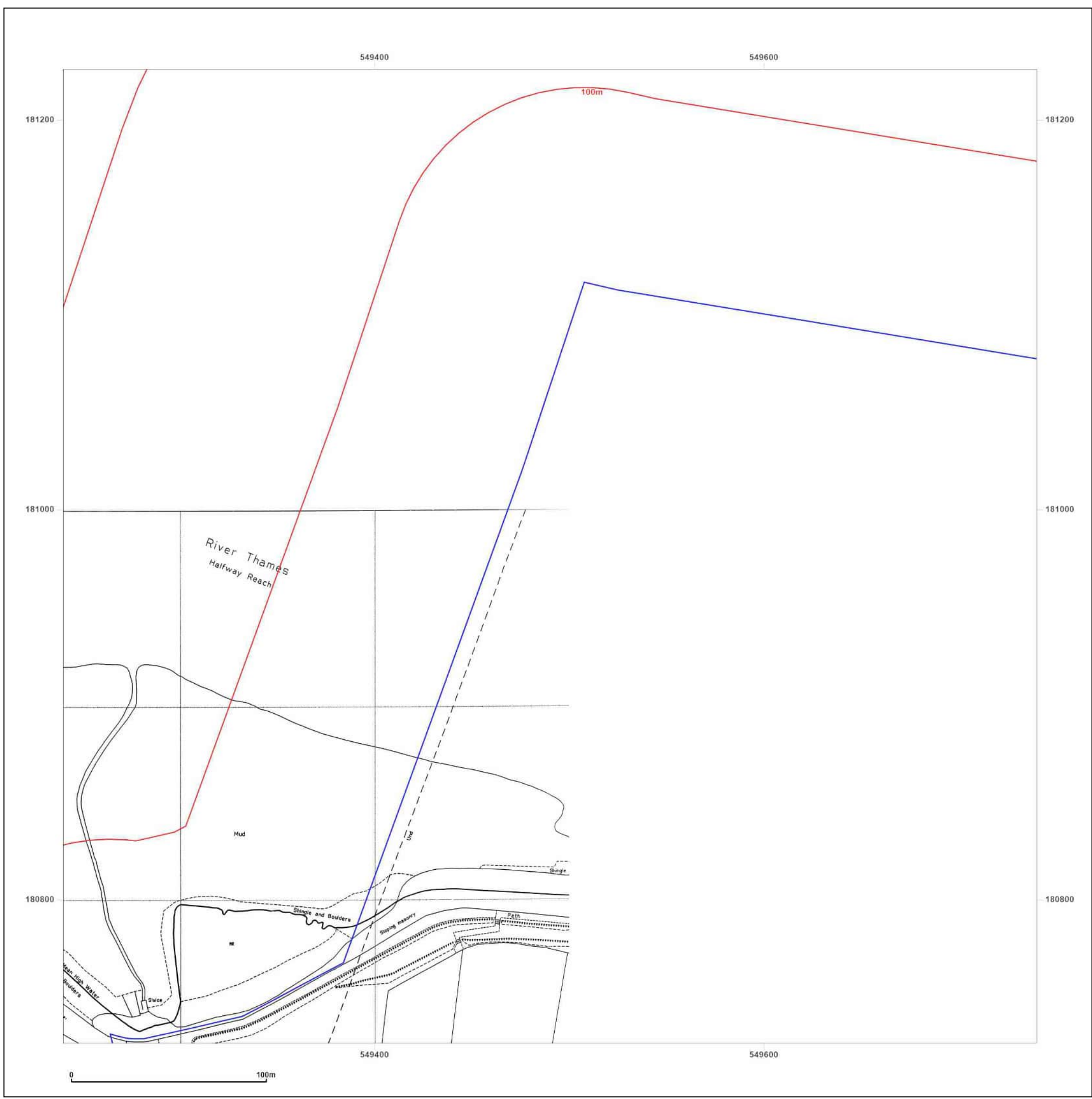


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Map legend available at:
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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_3_1
Grid Ref: 549990, 179976

Map Name: National Grid

Map date: 1958

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

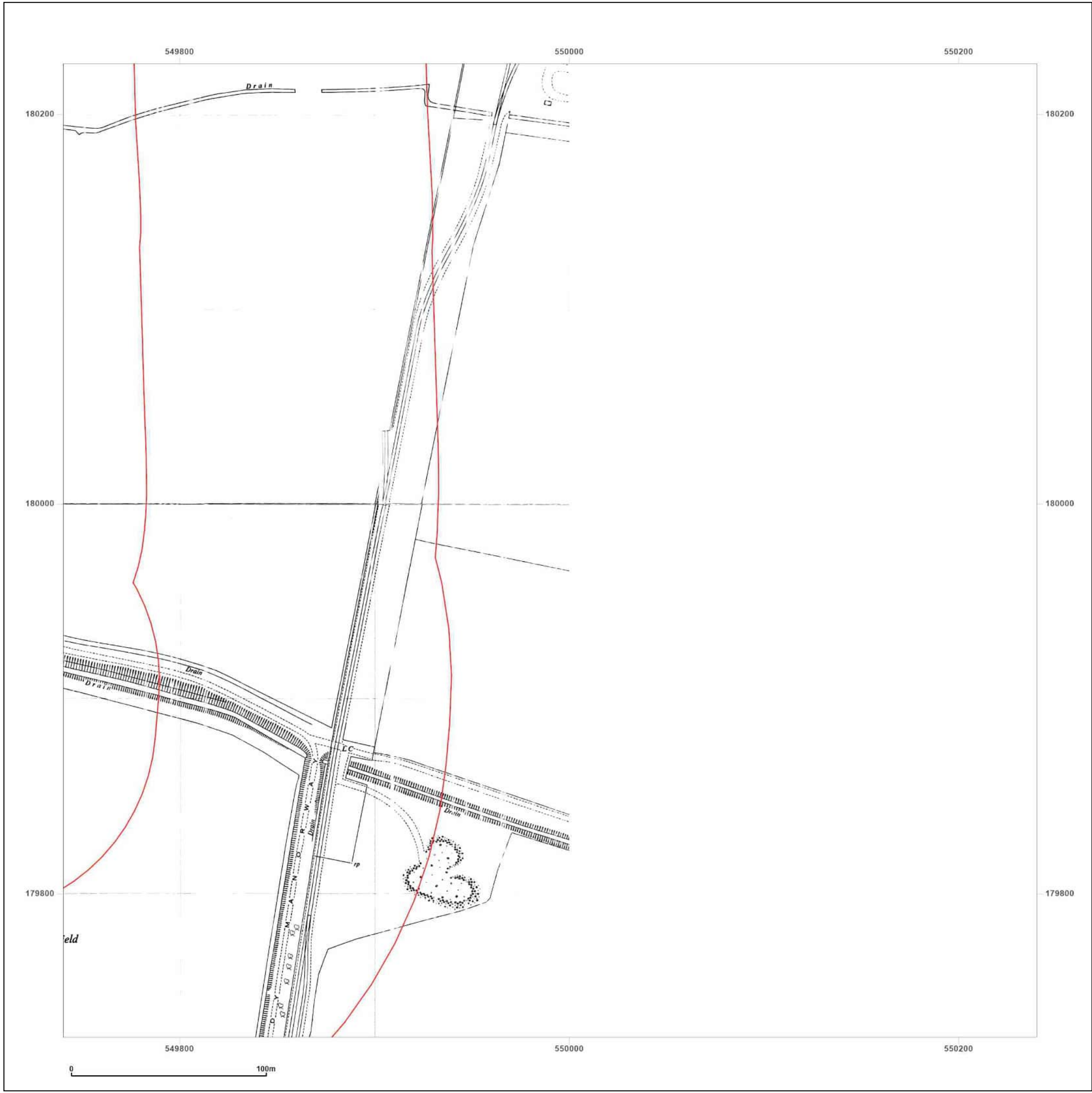


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Site Details:

549656.6233563919,180548.34
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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_3_1
Grid Ref: 549990, 179976

Map Name: National Grid

Map date: 1957-1959

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953

Surveyed 1958
Revised 1958
Edition N/A
Copyright 1959
Levelled 1953

Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1958
Revised 1958
Edition N/A
Copyright N/A
Levelled 1953

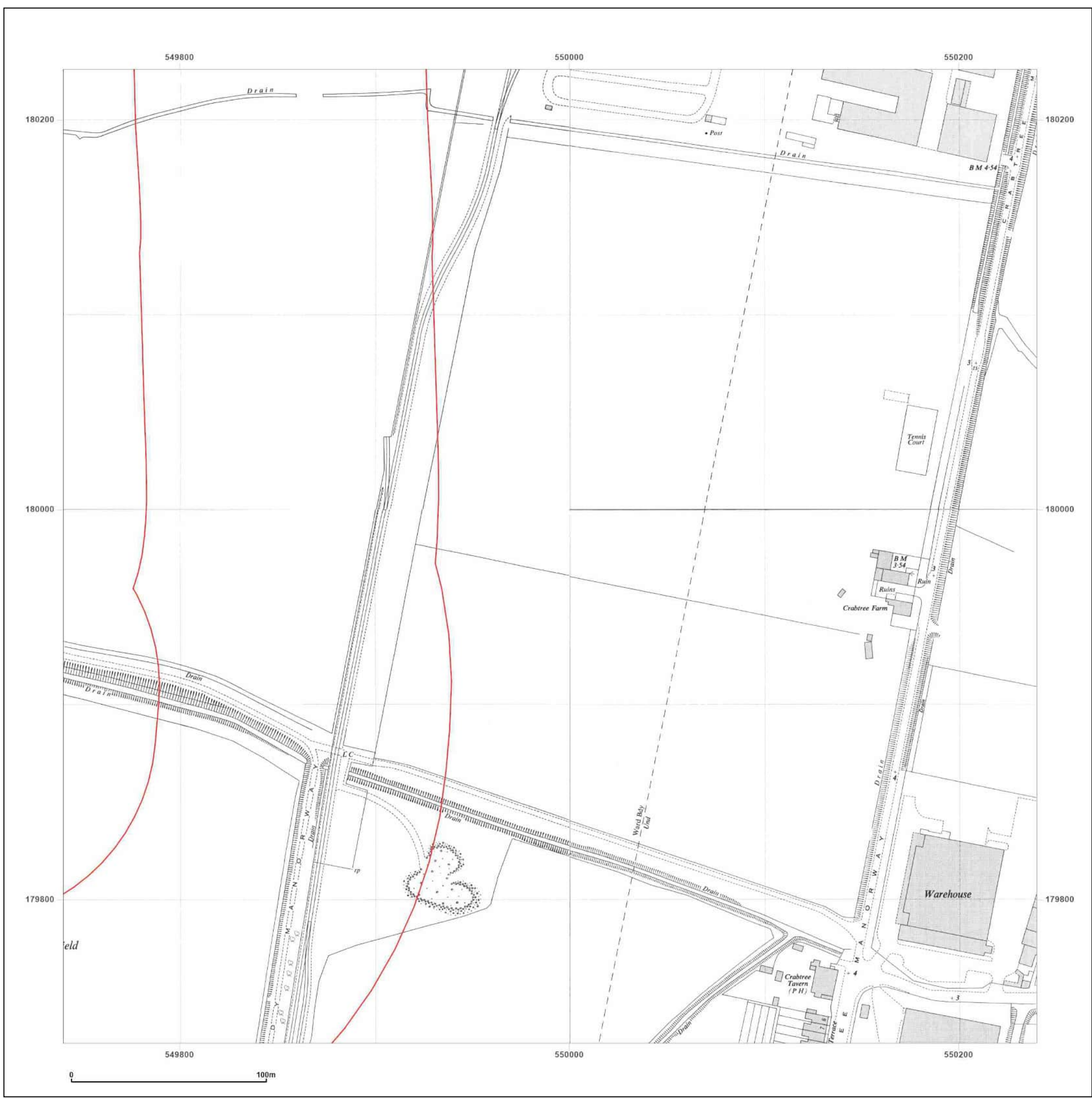


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Production date: 26 October 2023

Map legend available at:
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Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_3_1
Grid Ref: 549990, 179976

Map Name: National Grid

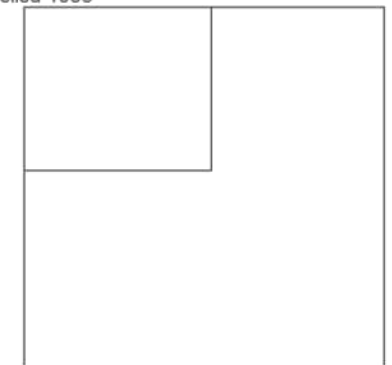
Map date: 1963

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957
Revised 1963
Edition N/A
Copyright 1963
Levelled 1953

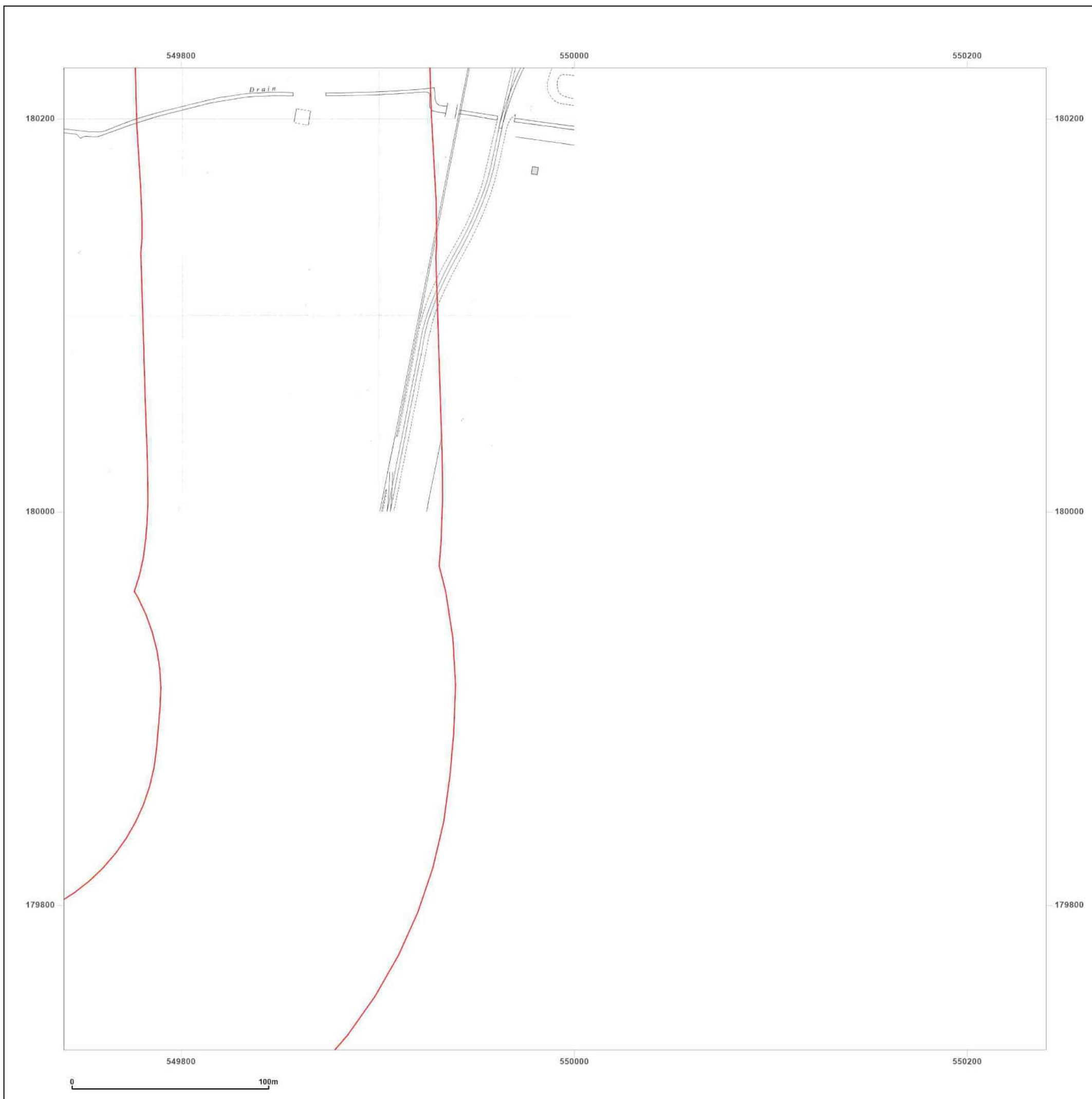


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549656.6233563919,180548.34
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Report Ref: GS-QCE-212-D95-XTT_1250_3_1
Grid Ref: 549990, 179976

Map Name: National Grid

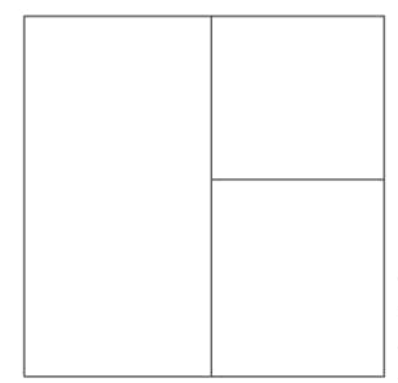
Map date: 1973

Scale: 1:1,250

Printed at: 1:2,000



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



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Revised N/A
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Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_3_1
Grid Ref: 549990, 179976

Map Name: National Grid

Map date: 1970-1975

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1957 Revised 1974 Edition N/A Copyright 1975 Levelled 1968	Surveyed 1958 Revised 1969 Edition N/A Copyright 1971 Levelled 1968



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Map legend available at: [REDACTED]

Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_3_1
Grid Ref: 549990, 179976

Map Name: National Grid

Map date: 1985-1990

Scale: 1:1,250

Printed at: 1:2,000



Surveved N/A Revised N/A Edition N/A Copyright 1985 Levelled 1968	Surveved 1968 Revised 1990 Edition N/A Copyright 1990 Levelled 1968
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Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_3_1
Grid Ref: 549990, 179976

Map Name: National Grid

Map date: 1991-1992

Scale: 1:1,250

Printed at: 1:2,000



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

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

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

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

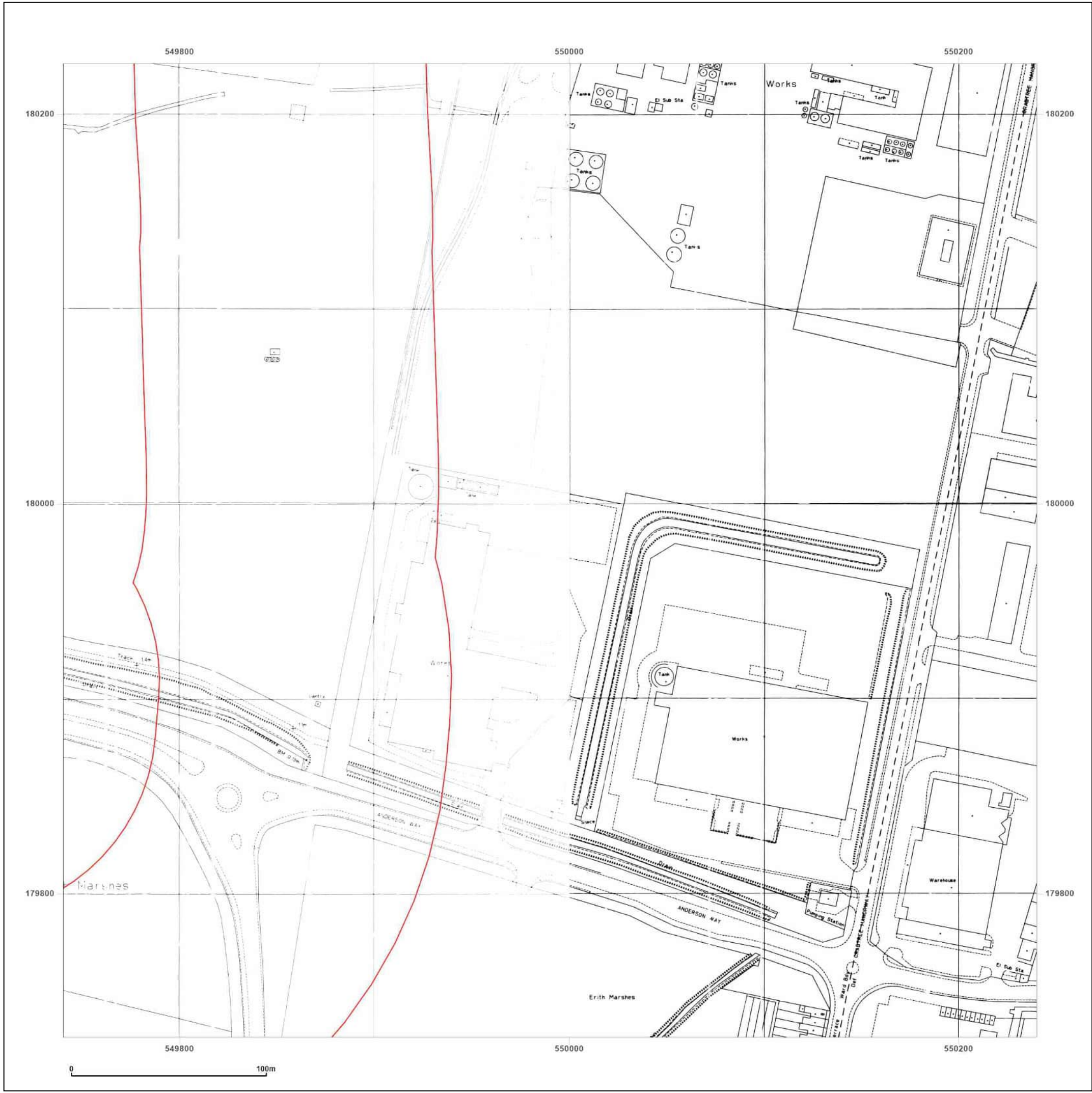


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Site Details:

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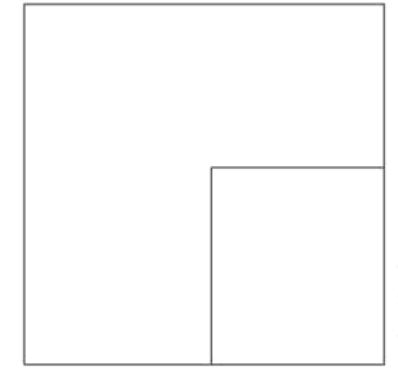
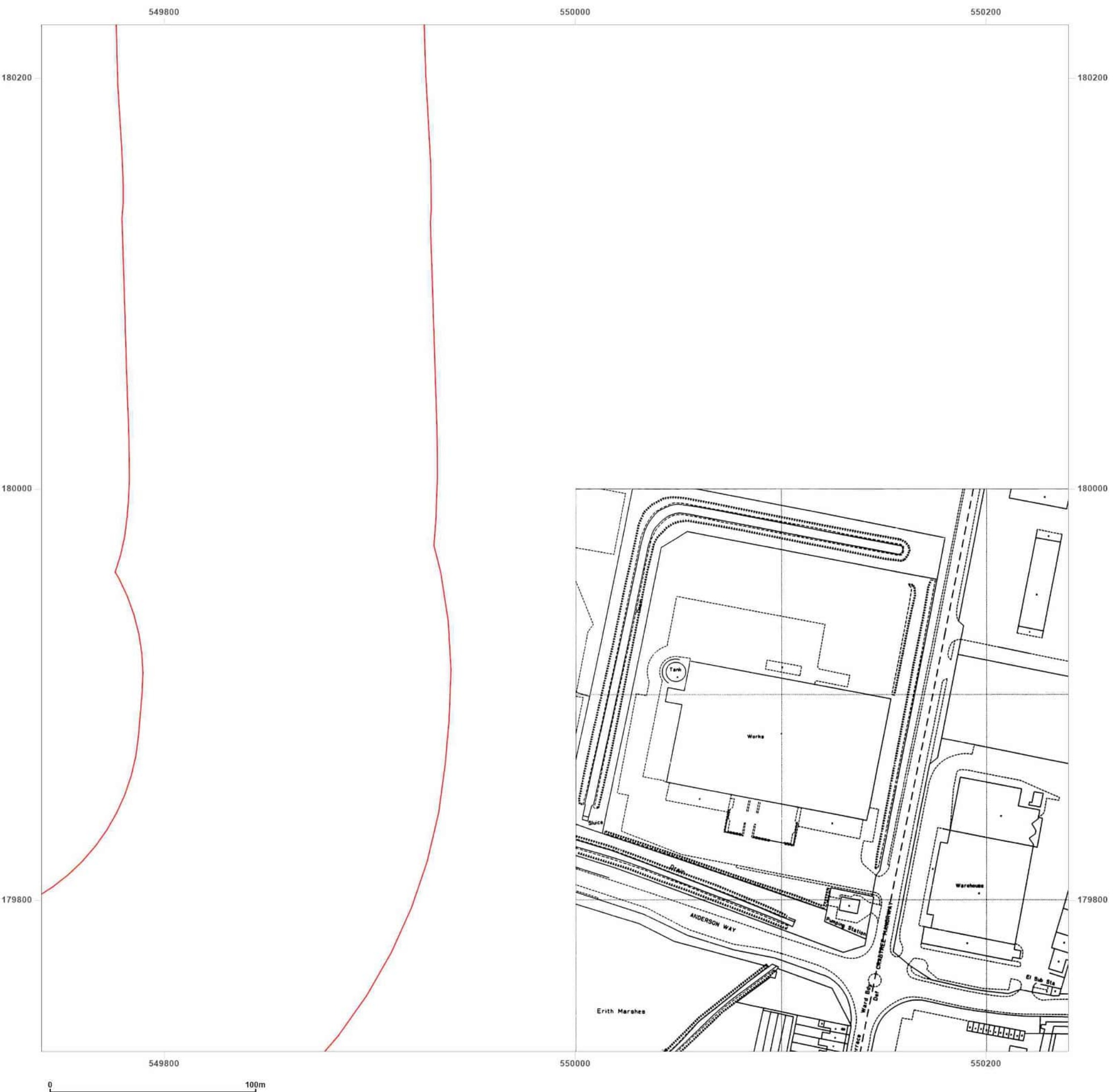
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Report Ref: GS-QCE-212-D95-XTT_1250_3_1
Grid Ref: 549990, 179976

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1993
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Production date: 26 October 2023

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Site Details:

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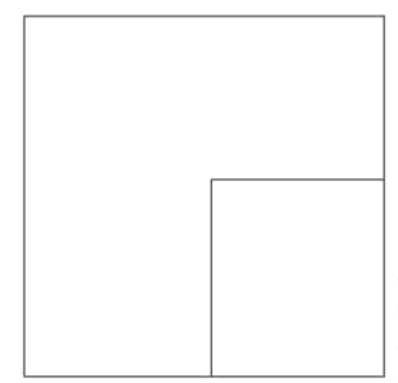
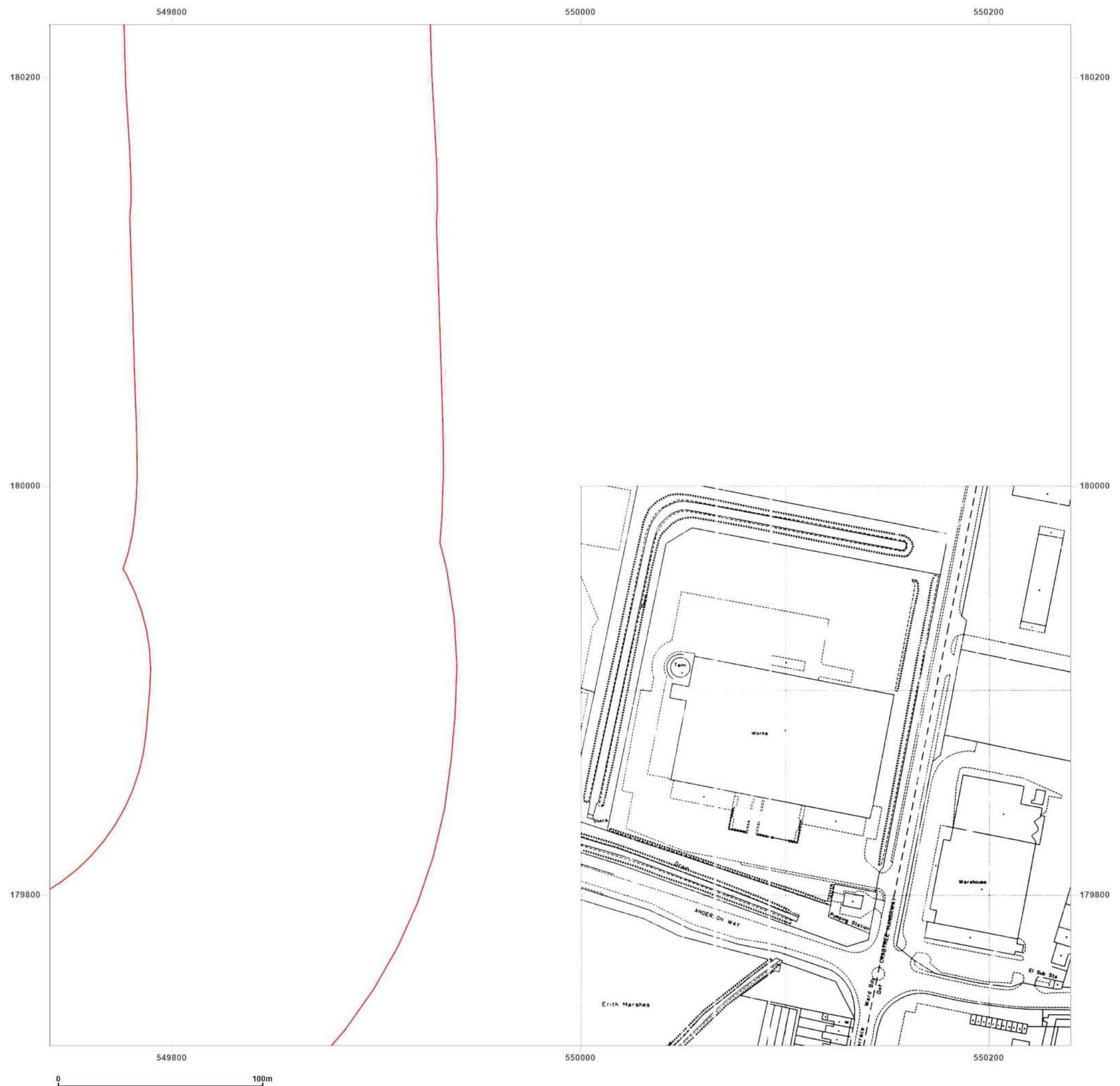
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Report Ref: GS-QCE-212-D95-XTT_1250_3_1
Grid Ref: 549990, 179976

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
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Map legend available at: [REDACTED]

Site Details:

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_3_2
Grid Ref: 549990, 180476

Map Name: National Grid

Map date: 1958

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 N/A
Revised N/A
Edition N/A
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Levelled N/A

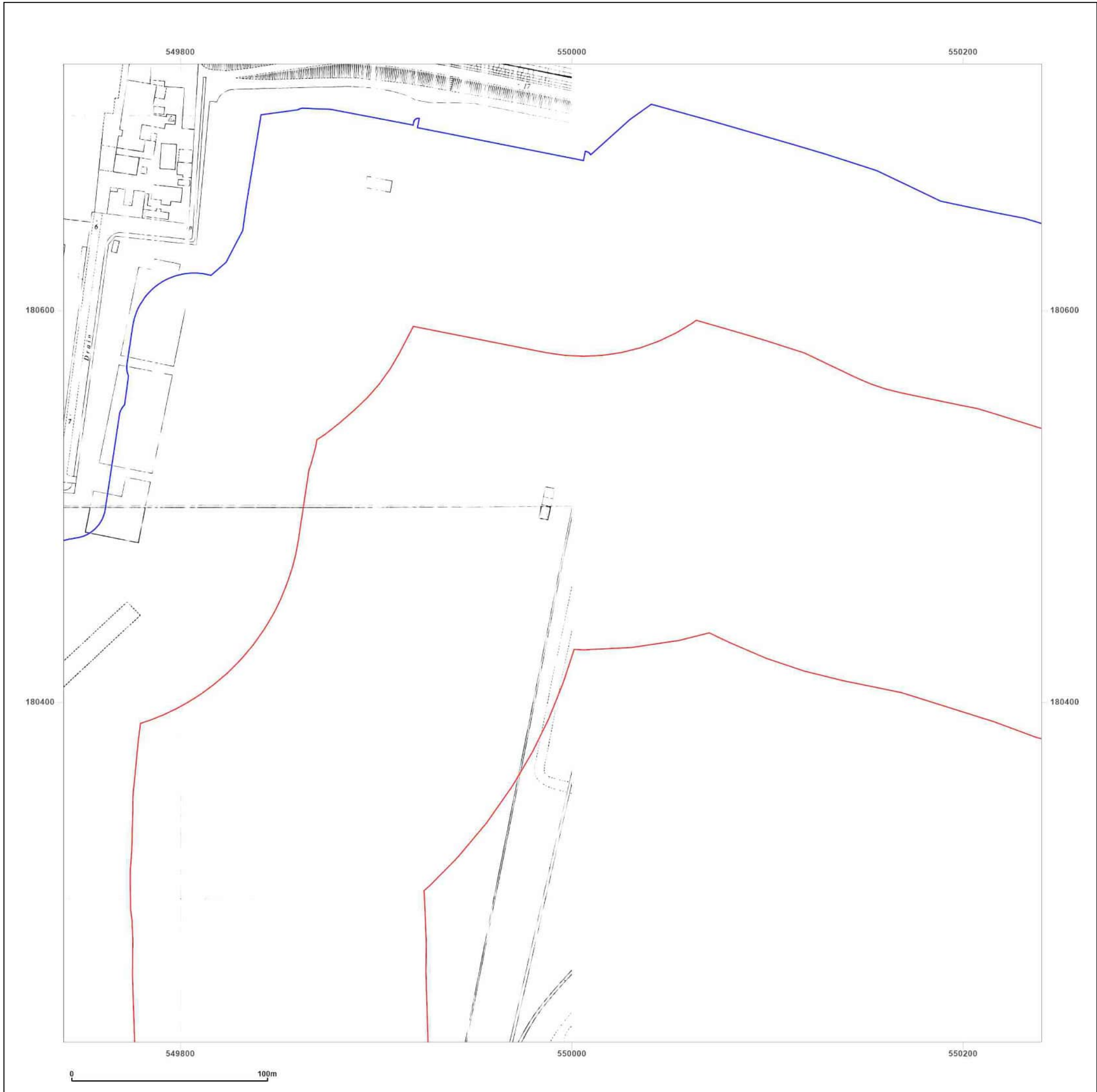


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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_3_2
Grid Ref: 549990, 180476

Map Name: National Grid

Map date: 1957-1959

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953

Surveyed 1958
Revised 1958
Edition N/A
Copyright 1959
Levelled 1953

Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953

Surveyed 1958
Revised 1958
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Copyright 1959
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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_3_2
Grid Ref: 549990, 180476

Map Name: National Grid

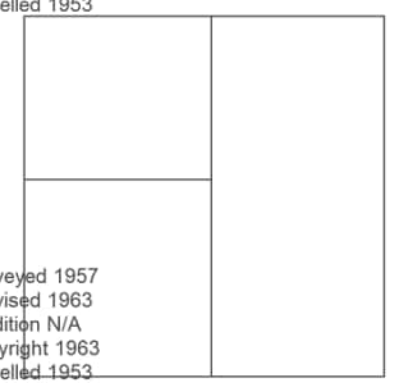
Map date: 1963

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1957
Revised 1963
Edition N/A
Copyright 1963
Levelled 1953



Surveyed 1957
Revised 1963
Edition N/A
Copyright 1963
Levelled 1953



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Site Details:

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Report Ref: GS-QCE-212-D95-XTT_1250_3_2
Grid Ref: 549990, 180476

Map Name: National Grid

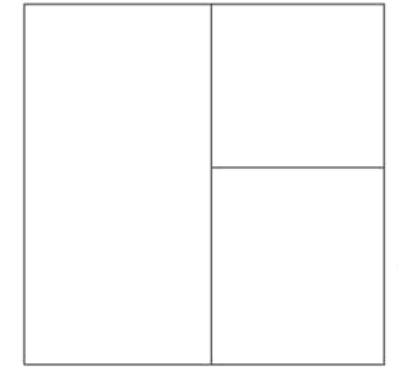
Map date: 1970-1973

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 1958
Revised 1969
Edition N/A
Copyright 1970
Levelled 1953

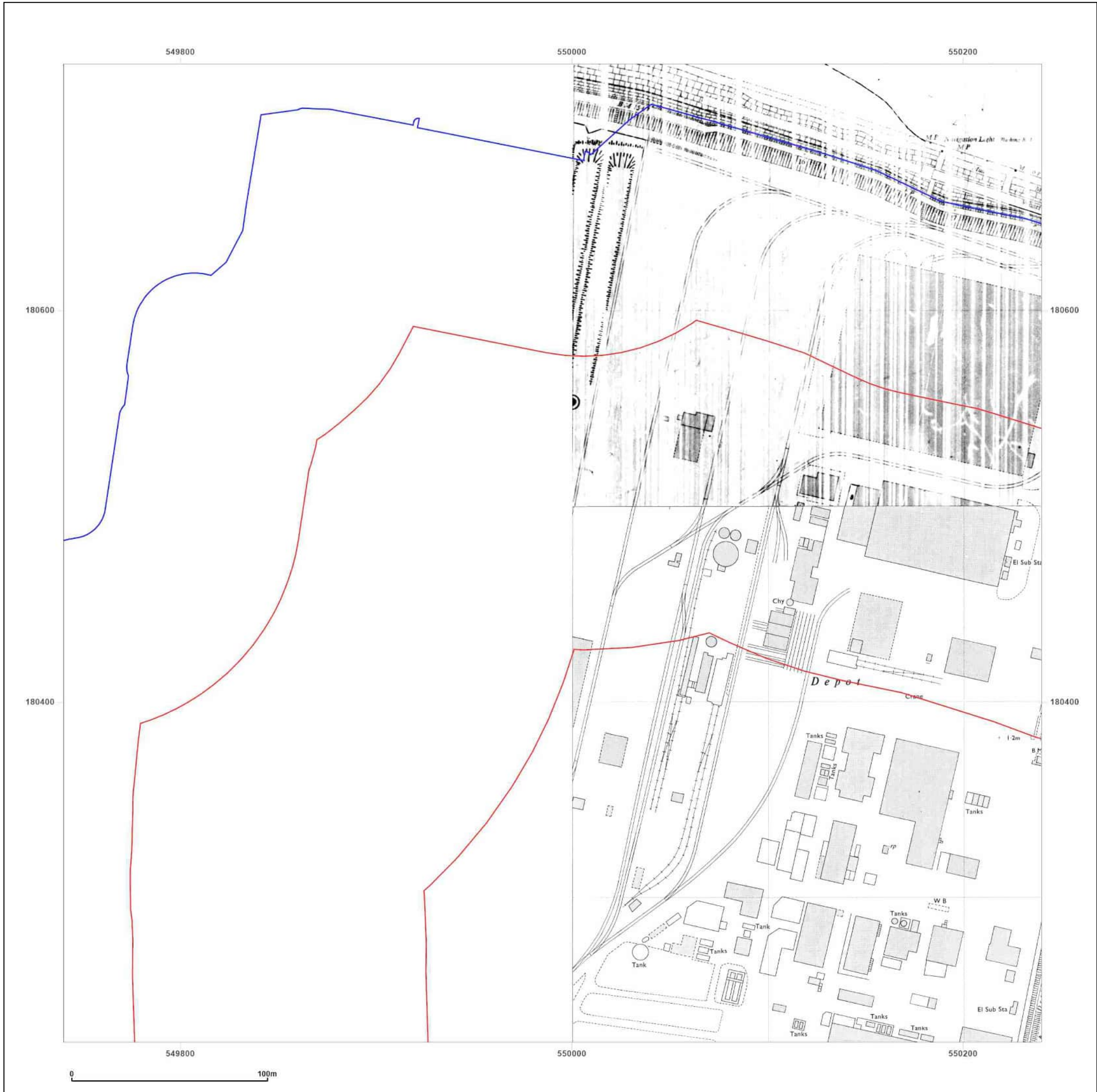


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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_3_2
Grid Ref: 549990, 180476

Map Name: National Grid

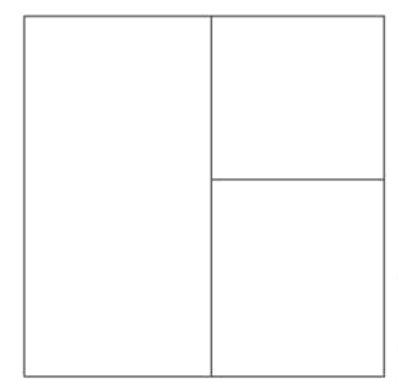
Map date: 1973-1975

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1958
Revised 1974
Edition N/A
Copyright 1975
Levelled 1968



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

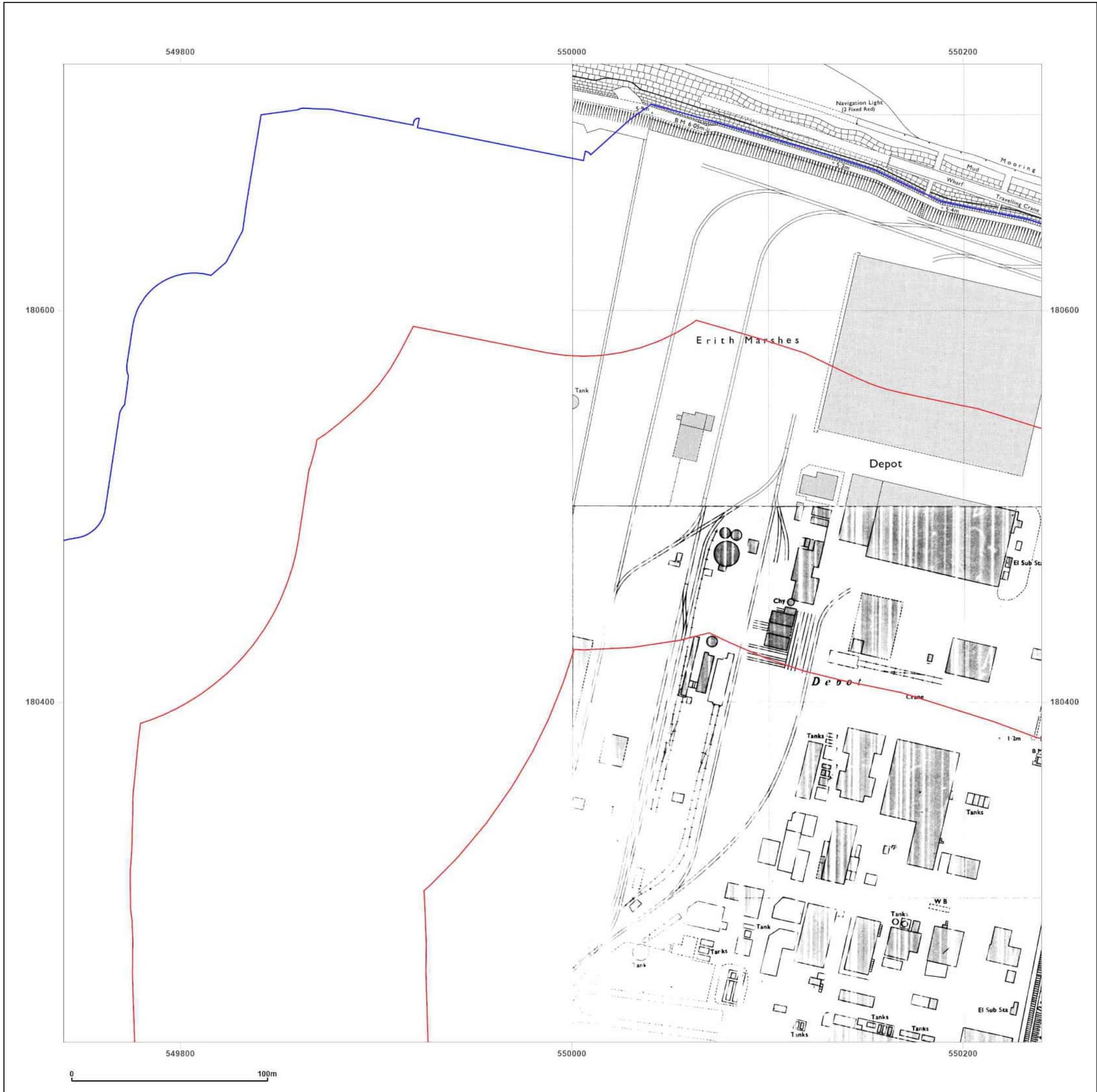


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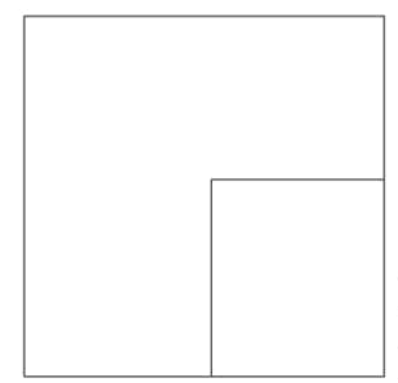
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Report Ref: GS-QCE-212-D95-XTT_1250_3_2
Grid Ref: 549990, 180476

Map Name: National Grid

Map date: 1984

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1968
Revised 1984
Edition N/A
Copyright 1984
Levelled 1968



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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_3_2
Grid Ref: 549990, 180476

Map Name: National Grid

Map date: 1991-1992

Scale: 1:1,250

Printed at: 1:2,000



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

Surveyed N/A
Revised 1990
Edition 1992
Copyright 1992
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1991
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Surveyed N/A
Revised N/A
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Copyright 1992
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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_3_2
Grid Ref: 549990, 180476

Map Name: National Grid

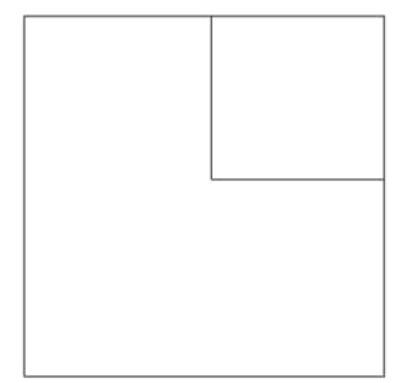
Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised 1990
Edition 1992
Copyright 1992
Levelled N/A

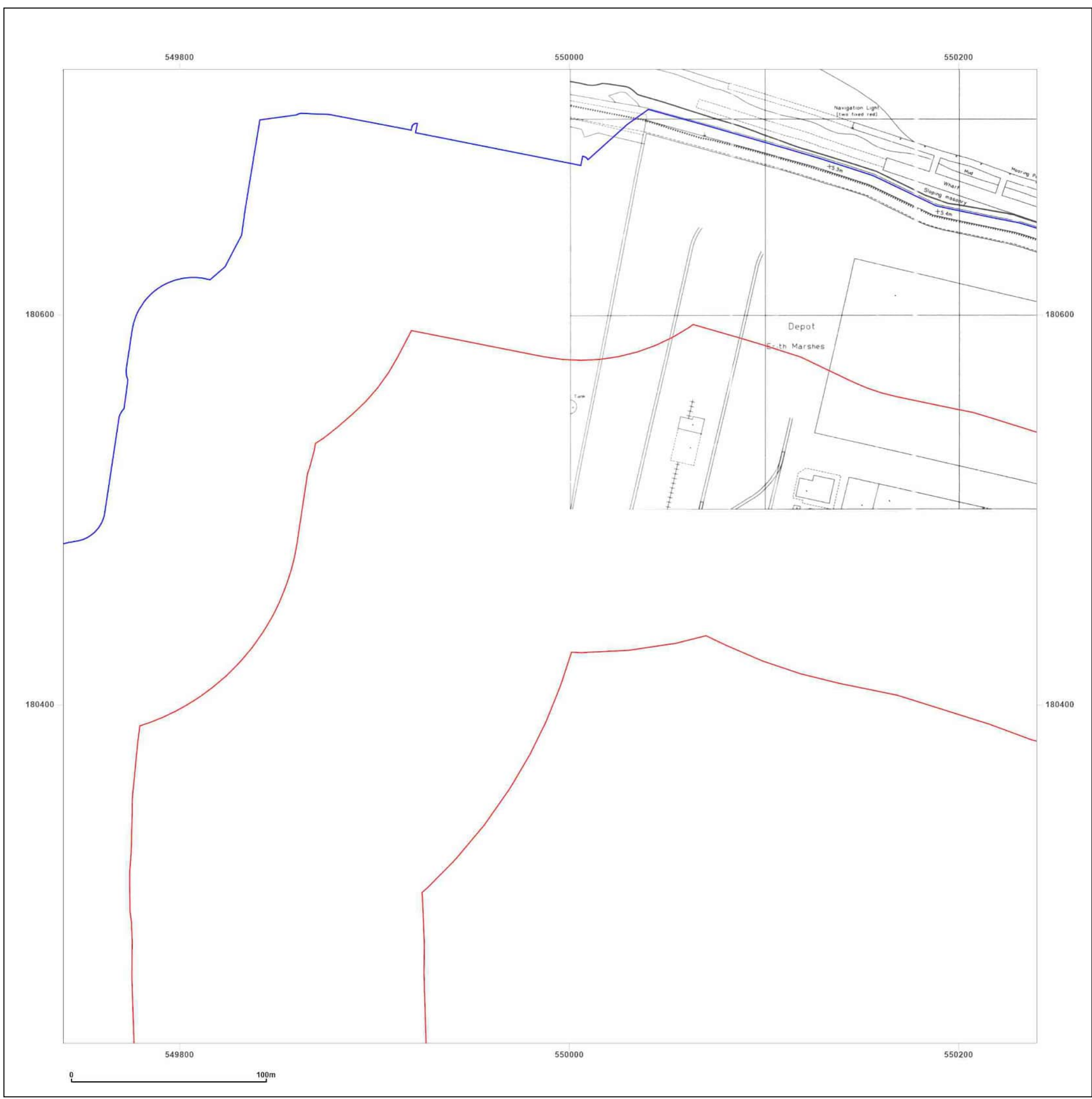


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Production date: 26 October 2023

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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_3_3
Grid Ref: 549990, 180976

Map Name: National Grid

Map date: 1957-1962

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948



Surveyed 1957
Revised 1957
Edition N/A
Copyright N/A
Levelled 1953

Surveyed 1958
Revised 1958
Edition N/A
Copyright 1959
Levelled 1953

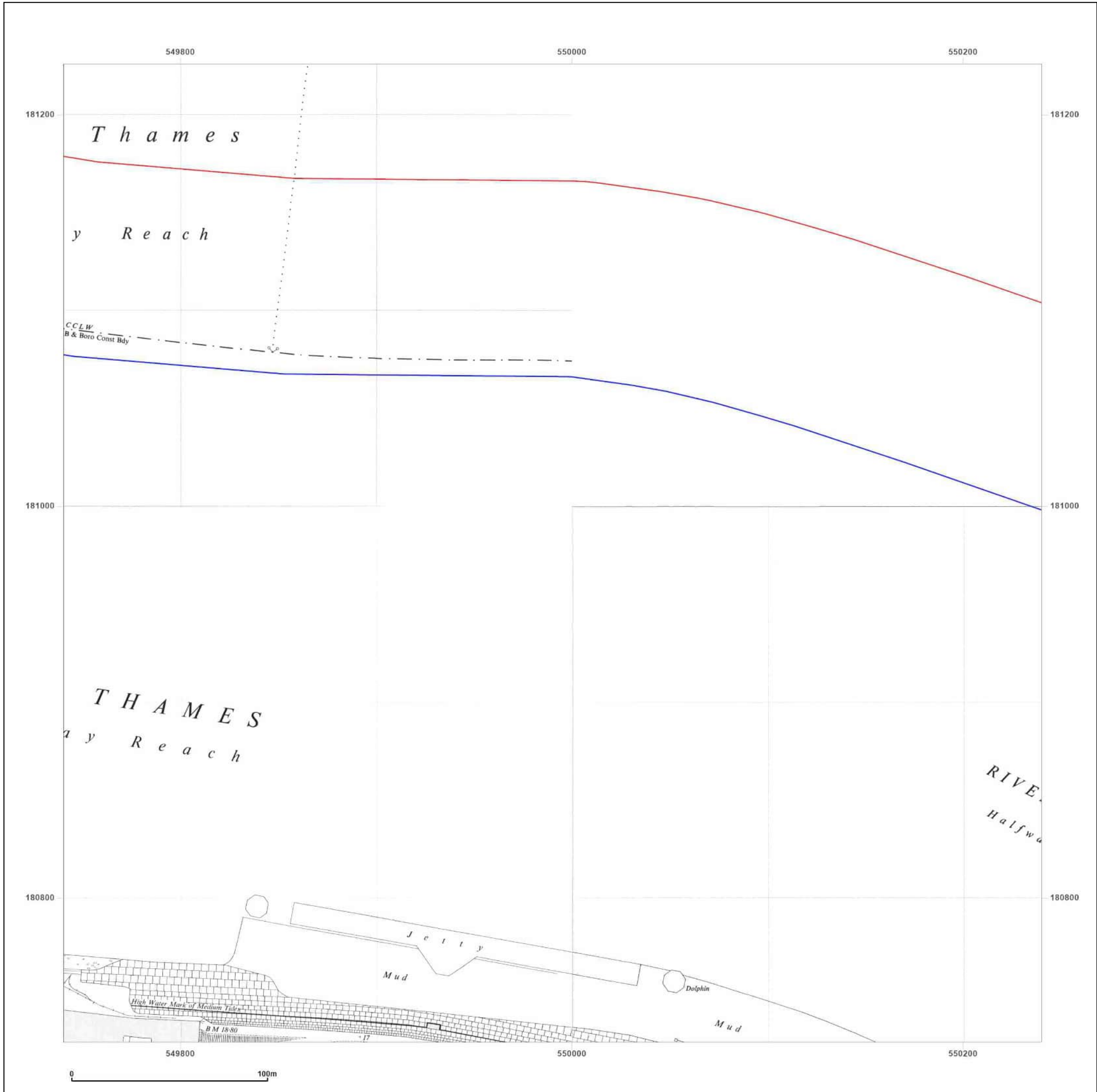


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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_3_3
Grid Ref: 549990, 180976

Map Name: National Grid

Map date: 1958-1962

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1961
Revised 1961
Edition N/A
Copyright 1962
Levelled 1948



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

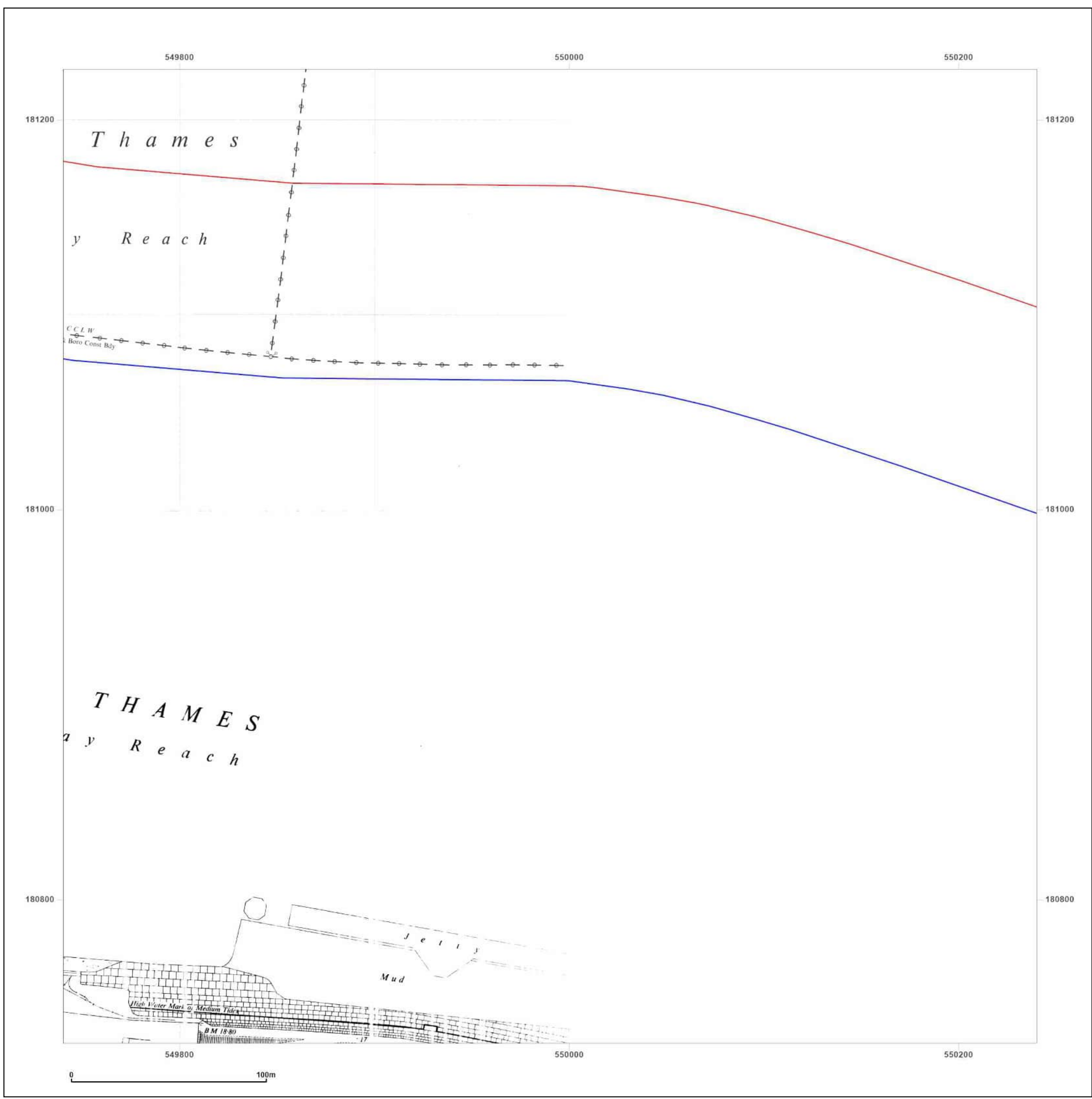


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Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_3_3
Grid Ref: 549990, 180976

Map Name: National Grid

Map date: 1963-1964

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 1957
Revised 1963
Edition N/A
Copyright 1963
Levelled 1953

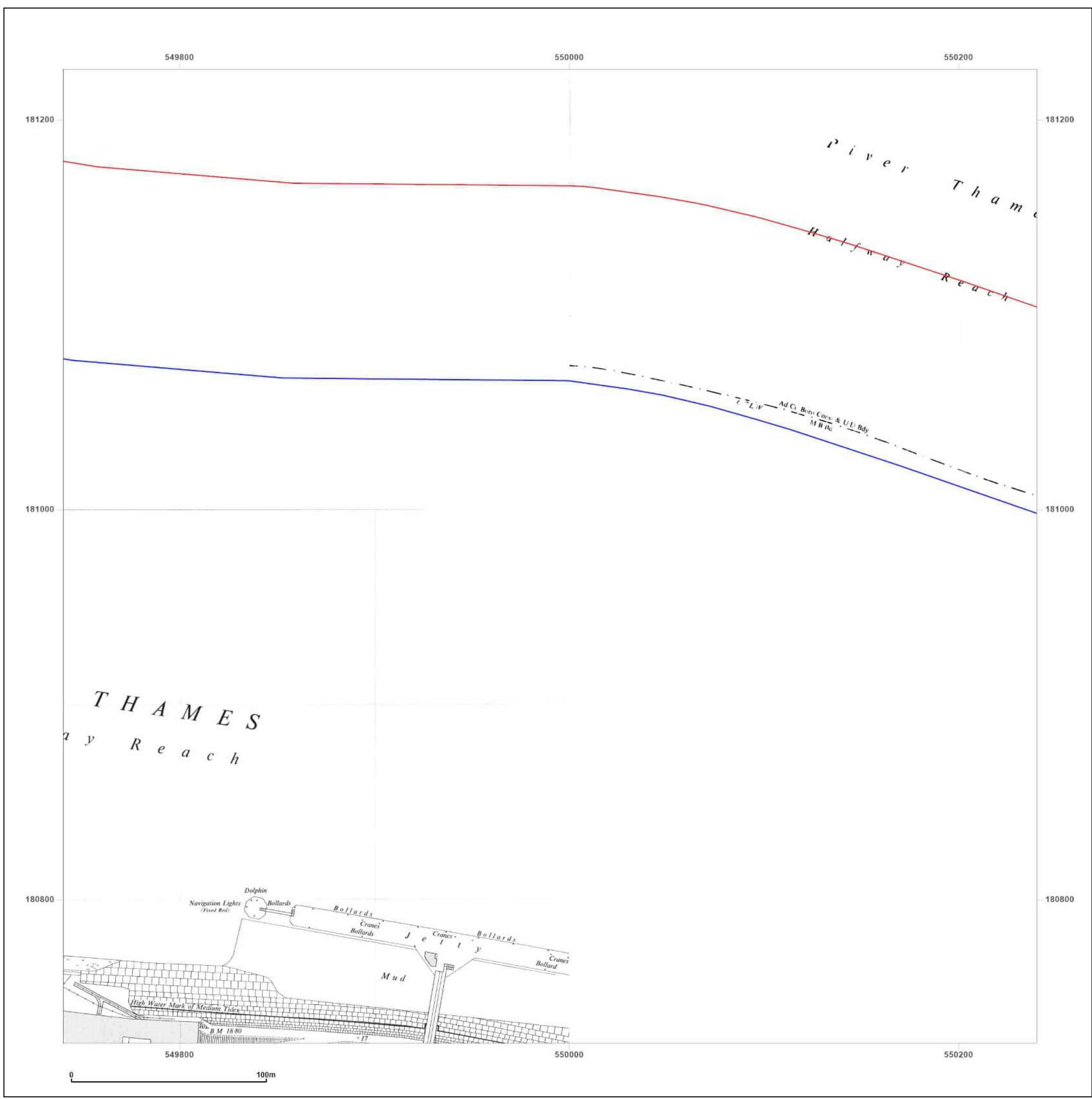


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Report Ref: GS-QCE-212-D95-XTT_1250_3_3
Grid Ref: 549990, 180976

Map Name: National Grid

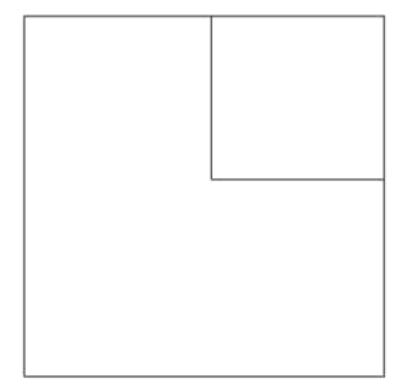
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Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1963
Revised 1963
Edition N/A
Copyright 1964
Levelled 1961

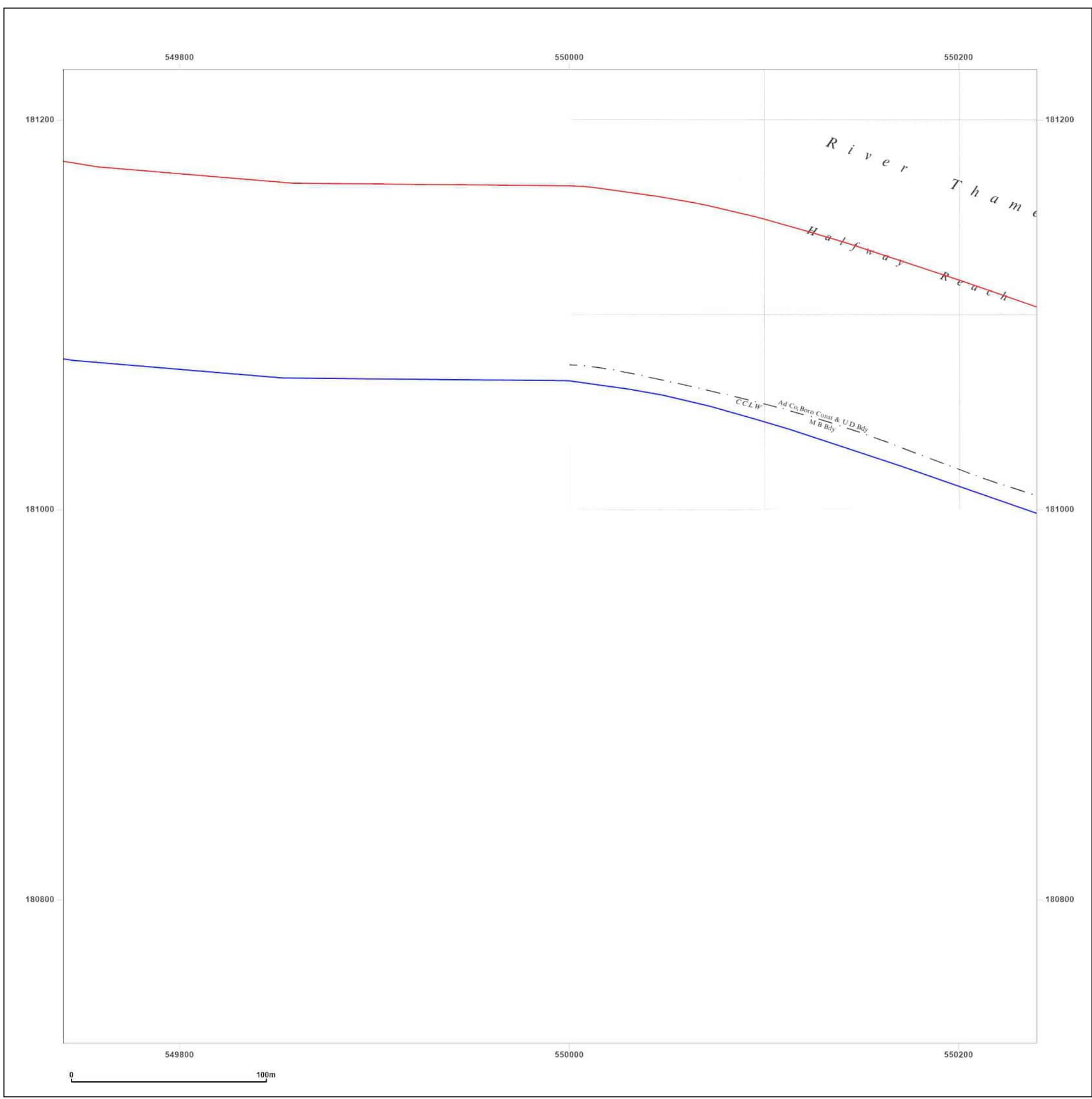


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Report Ref: GS-QCE-212-D95-XTT_1250_3_3
Grid Ref: 549990, 180976

Map Name: National Grid

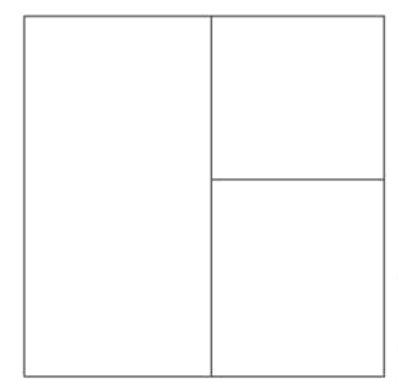
Map date: 1973-1975

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

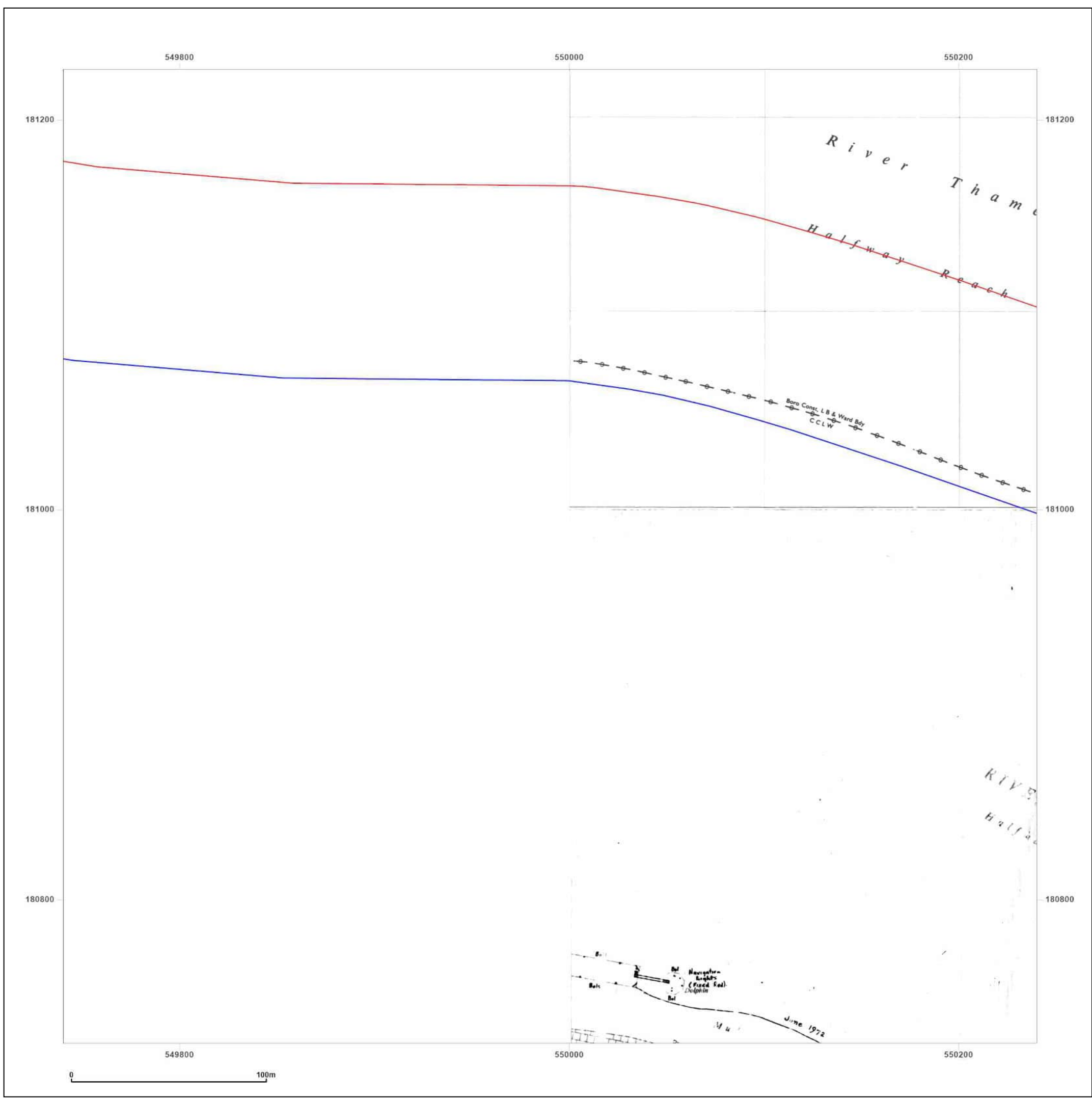


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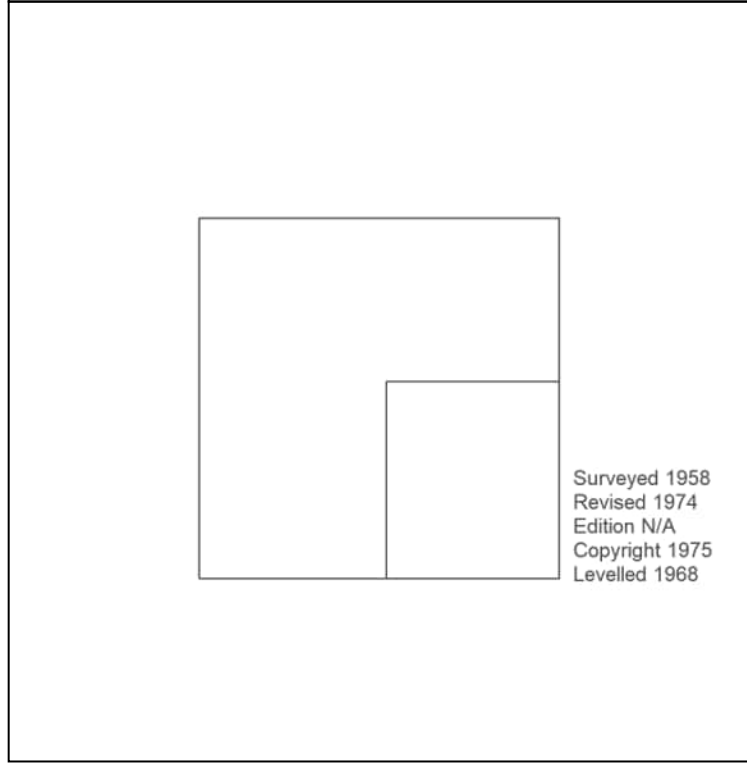
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Grid Ref: 549990, 180976

Map Name: National Grid

Map date: 1975

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1958
Revised 1974
Edition N/A
Copyright 1975
Levelled 1968

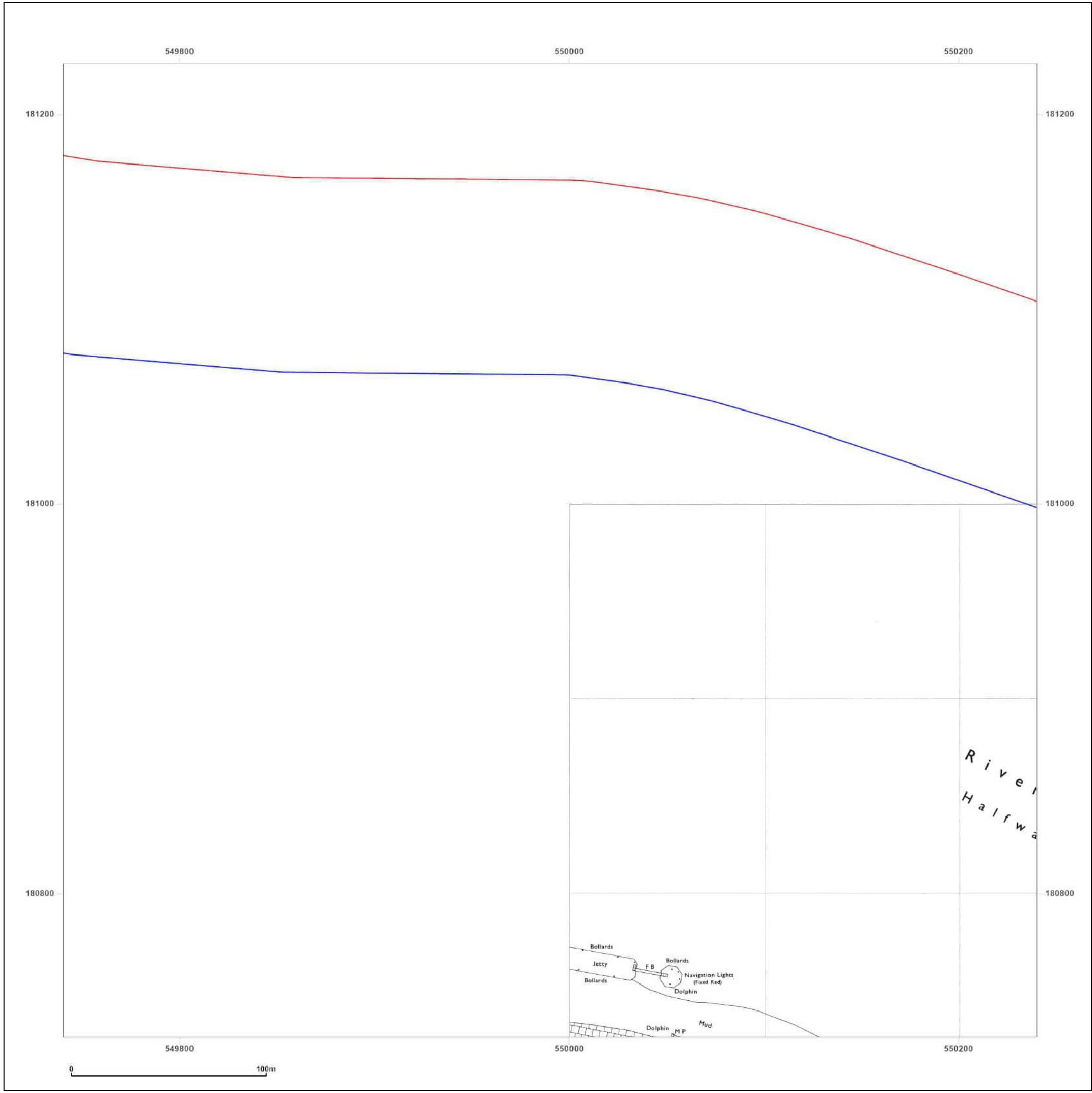


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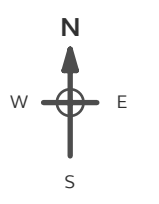


Site Details:

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620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_3_3
Grid Ref: 549990, 180976

Map Name: National Grid
Map date: 1991-1992
Scale: 1:1,250
Printed at: 1:2,000



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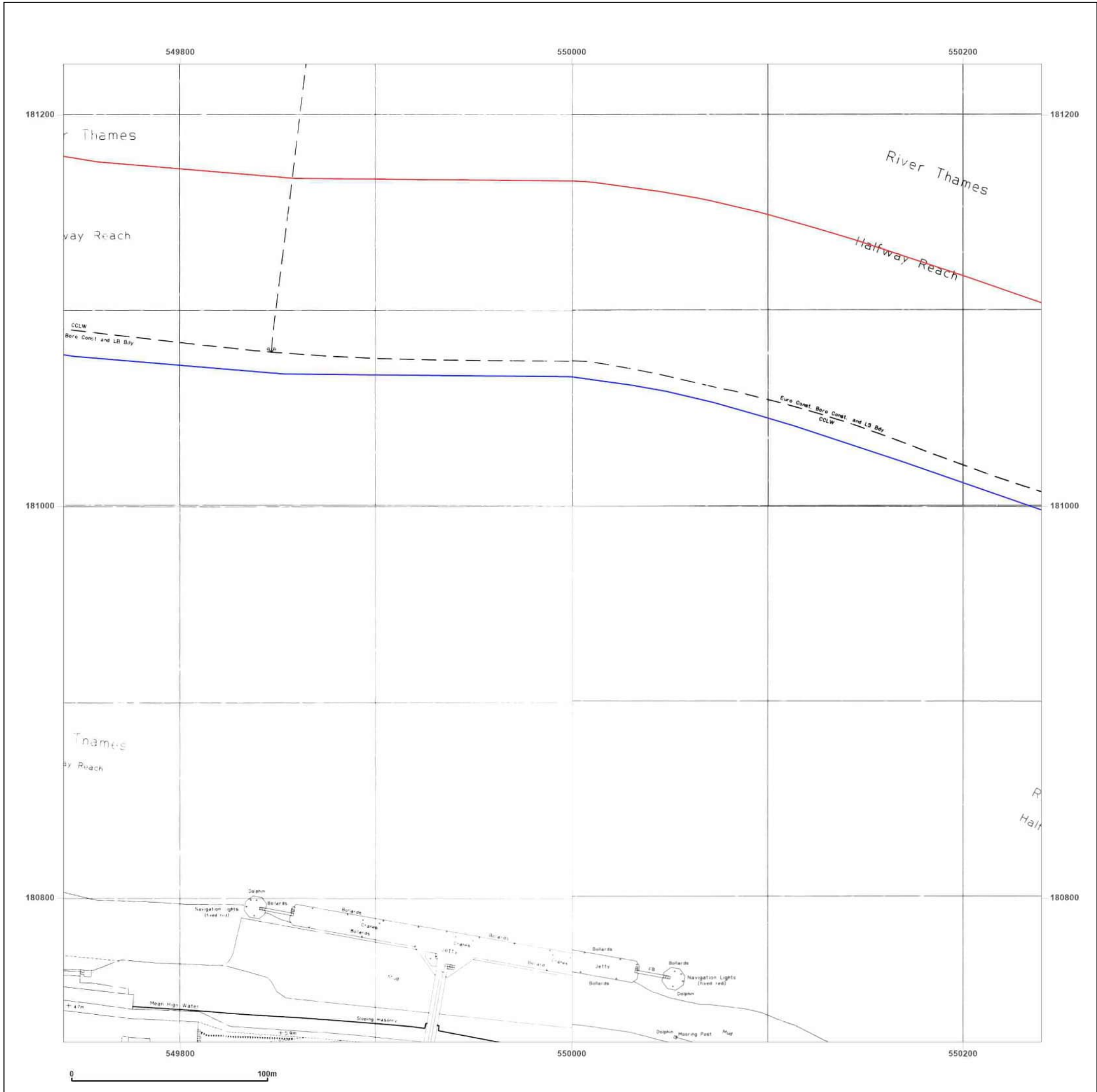


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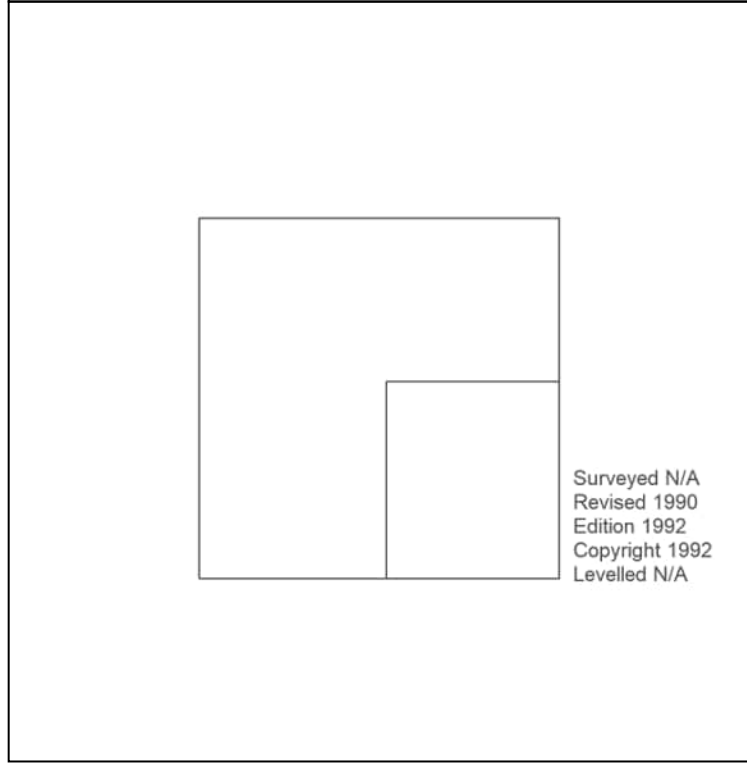
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Grid Ref: 549990, 180976

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised 1990
Edition 1992
Copyright 1992
Levelled N/A

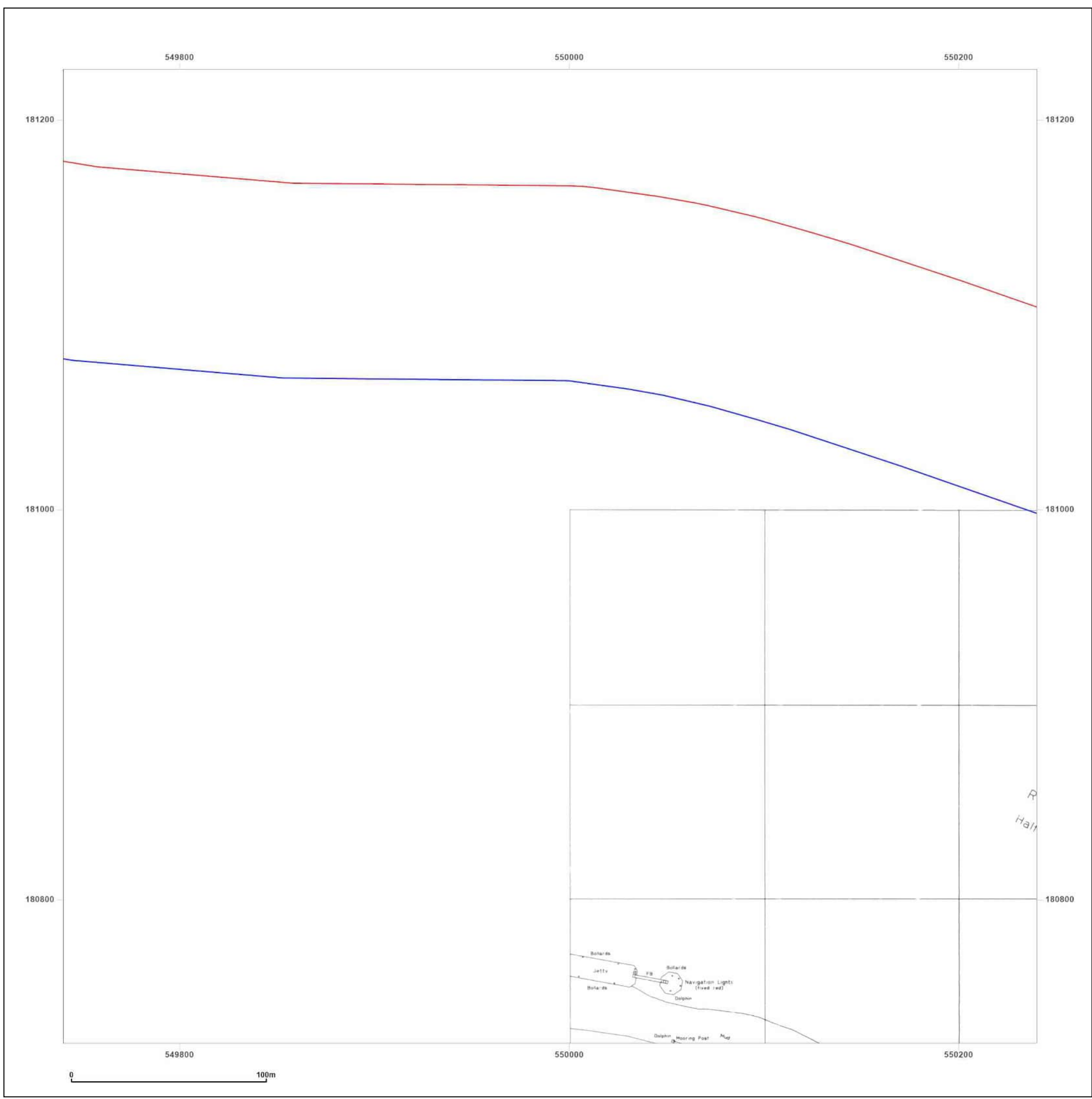


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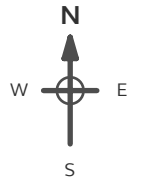


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Report Ref: GS-QCE-212-D95-XTT_1250_4_2
Grid Ref: 550490, 180476

Map Name: National Grid
Map date: 1959-1964
Scale: 1:1,250
Printed at: 1:2,000



Surveved 1958 Revised 1958 Edition N/A Copyright 1959 Levelled 1953	Surveved N/A Revised N/A Edition N/A Copyright N/A Levelled N/A
Surveved 1958 Revised 1958 Edition N/A Copyright 1959 Levelled 1953	Surveved 1958 Revised 1958 Edition N/A Copyright 1959 Levelled 1953

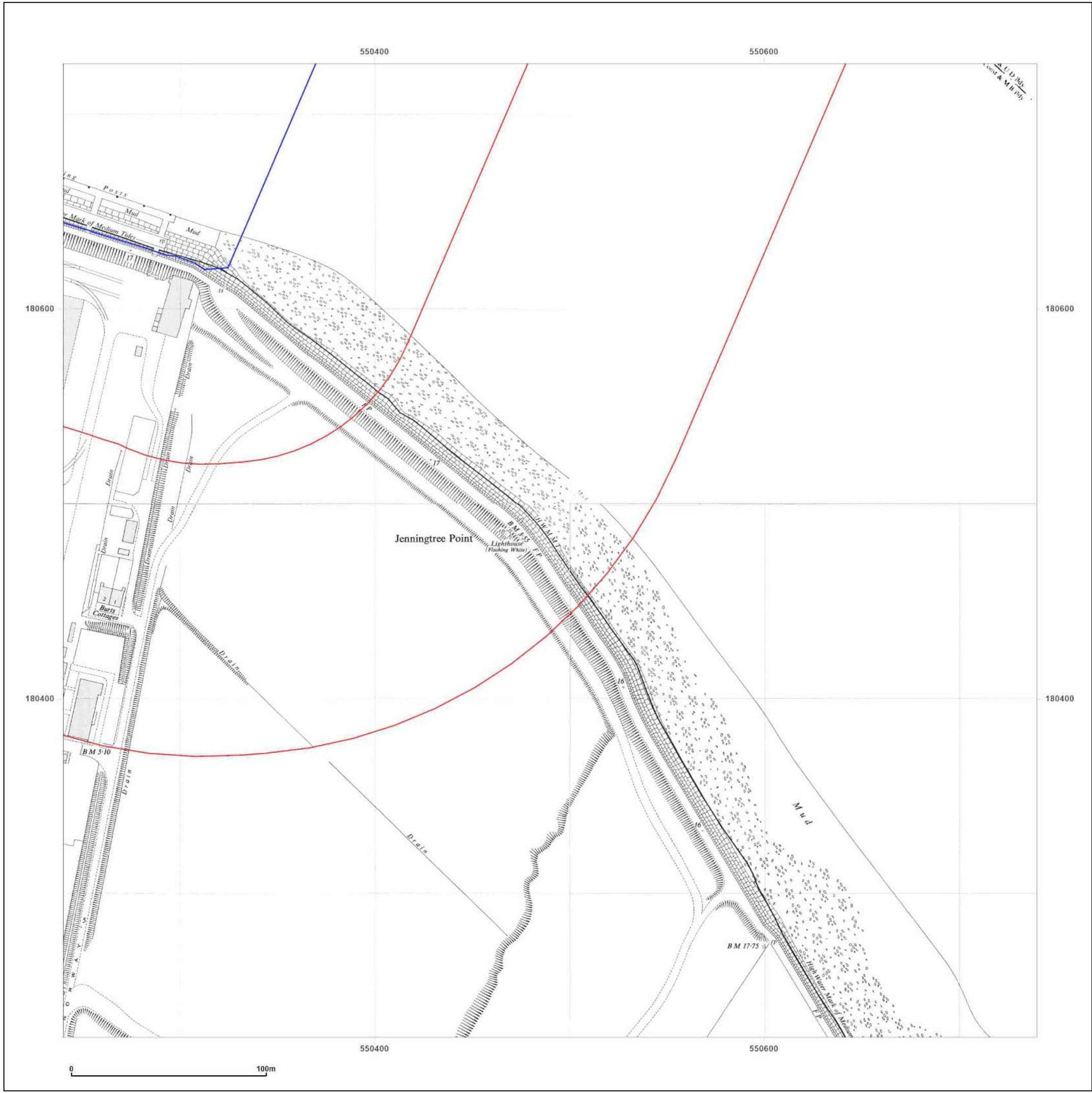


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Production date: 26 October 2023

Map legend available at: [REDACTED]



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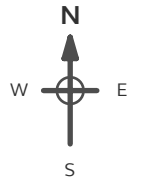
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Grid Ref: 550490, 180476

Map Name: National Grid

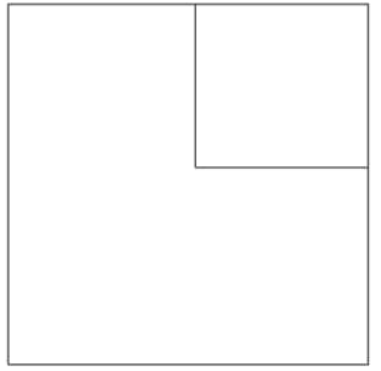
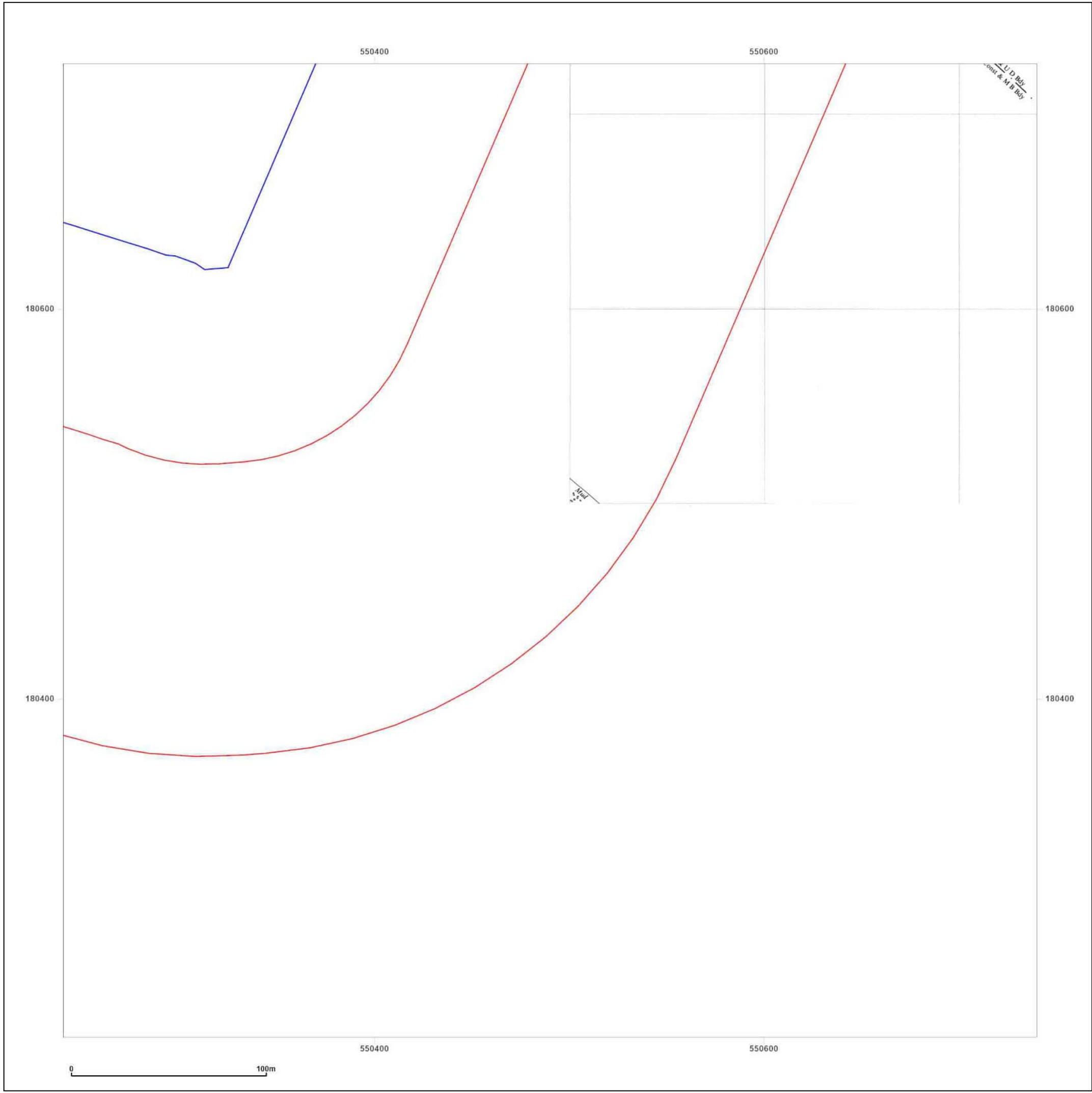
Map date: 1964

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1963
Revised 1963
Edition N/A
Copyright 1964
Levelled 1961

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E: info@groundsure.com
W: [REDACTED]

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Production date: 26 October 2023

Map legend available at: [REDACTED]

Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_4_2
Grid Ref: 550490, 180476

Map Name: National Grid

Map date: 1970-1973

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 N/A Revised N/A Edition N/A Copyright 1973 Levelled N/A
Surveyed 1958 Revised 1969 Edition N/A Copyright 1970 Levelled 1953	Surveyed 1958 Revised 1969 Edition N/A Copyright 1970 Levelled 1968

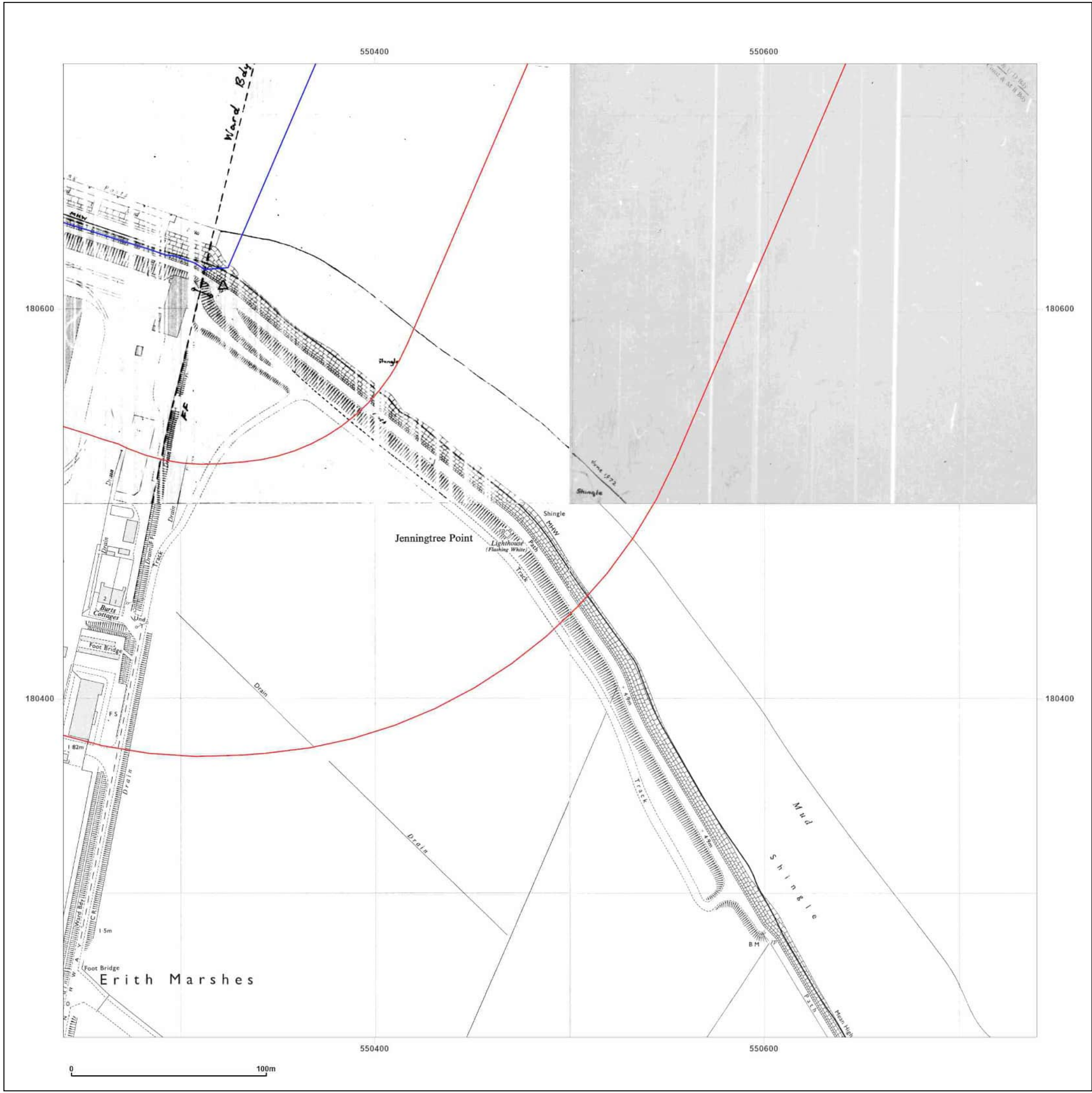


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_4_2
Grid Ref: 550490, 180476

Map Name: National Grid

Map date: 1973-1975

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1958
Revised 1974
Edition N/A
Copyright 1975
Levelled 1968

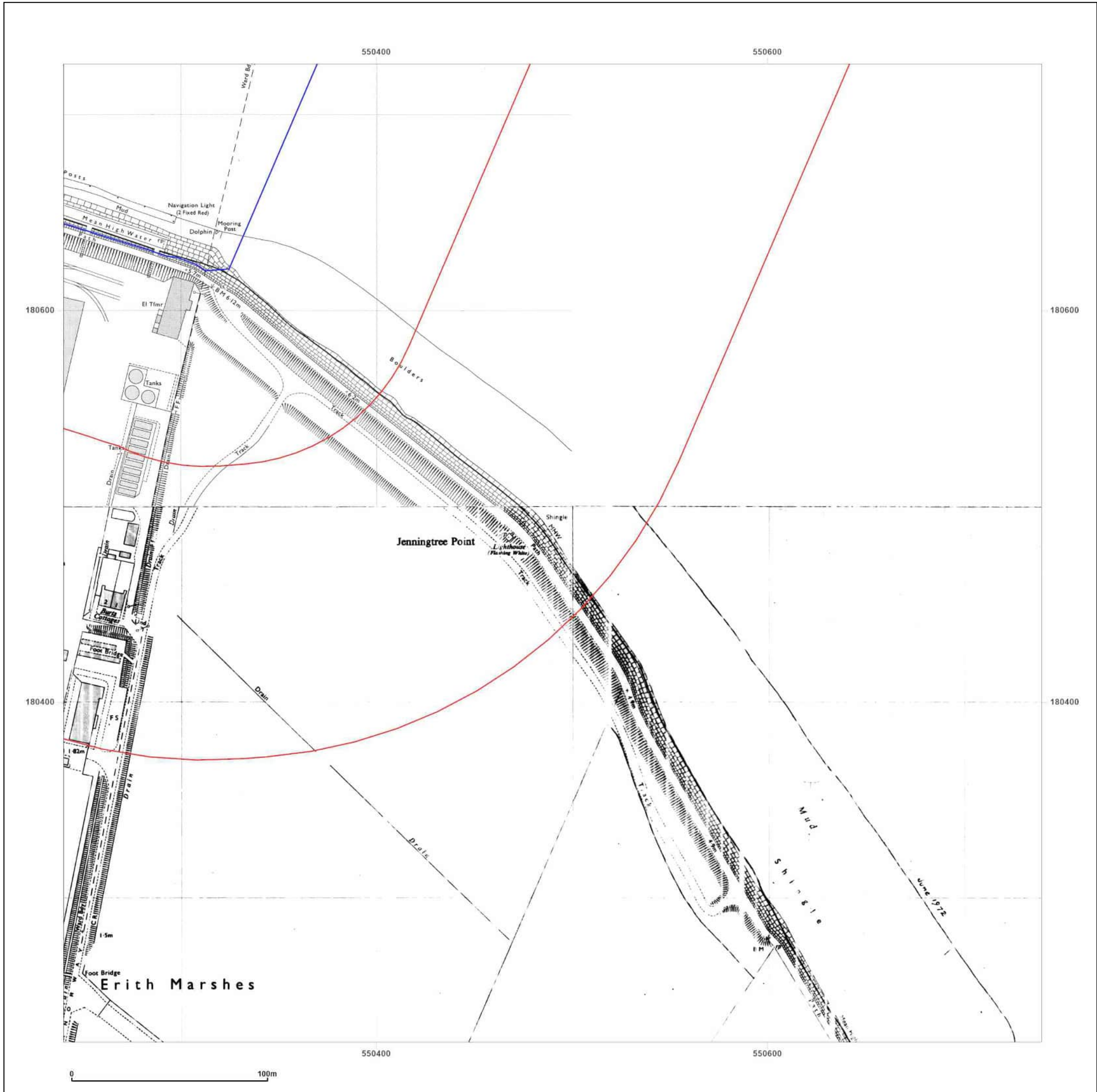


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_4_2
Grid Ref: 550490, 180476

Map Name: National Grid

Map date: 1984

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1968
Revised 1984
Edition N/A
Copyright 1984
Levelled 1968

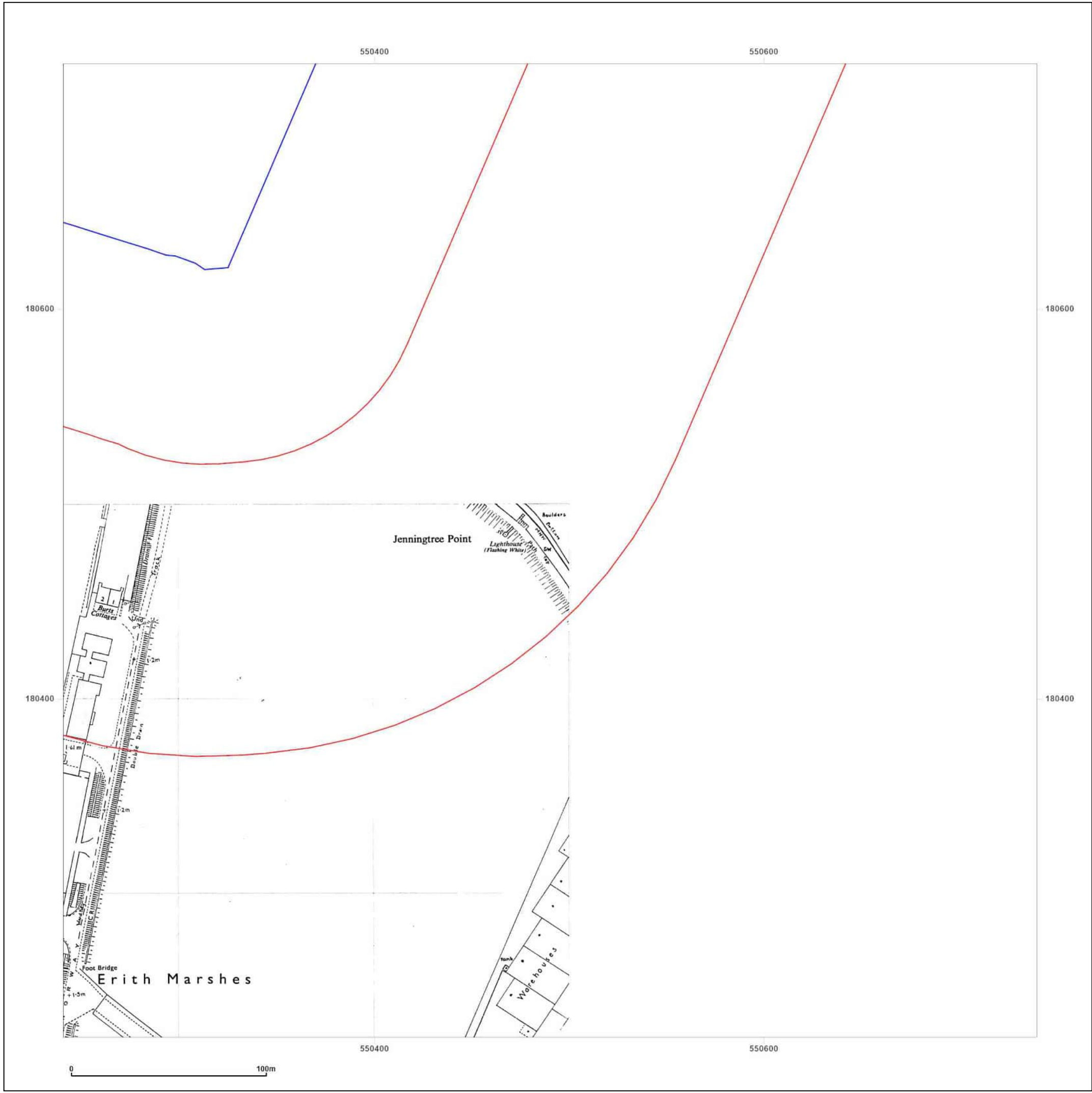


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_4_3
Grid Ref: 550490, 180976

Map Name: National Grid

Map date: 1959-1964

Scale: 1:1,250

Printed at: 1:2,000



Surveved N/A Revised N/A Edition N/A Copyright N/A Levelled N/A	Surveved 1963 Revised 1963 Edition N/A Copyright 1964 Levelled 1961
Surveved 1958 Revised 1958 Edition N/A Copyright 1959 Levelled 1953	Surveved N/A Revised N/A Edition N/A Copyright N/A Levelled N/A

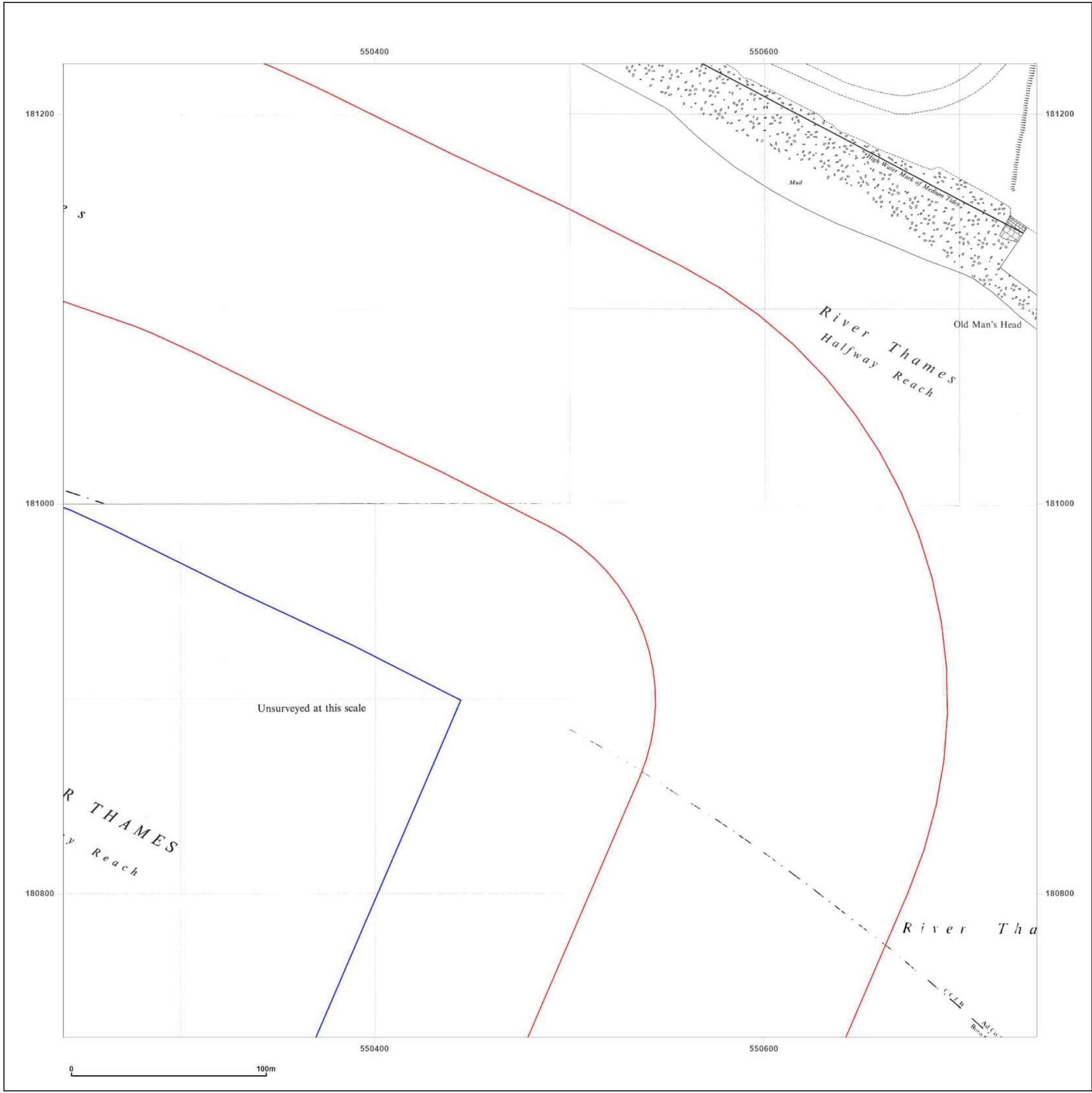


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_4_3
Grid Ref: 550490, 180976

Map Name: National Grid

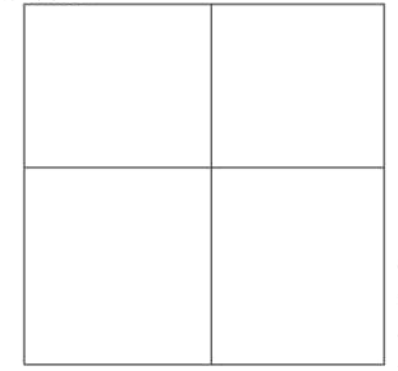
Map date: 1964

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1963
Revised 1963
Edition N/A
Copyright 1964
Levelled 1961



Surveyed 1963
Revised 1963
Edition N/A
Copyright 1964
Levelled 1961

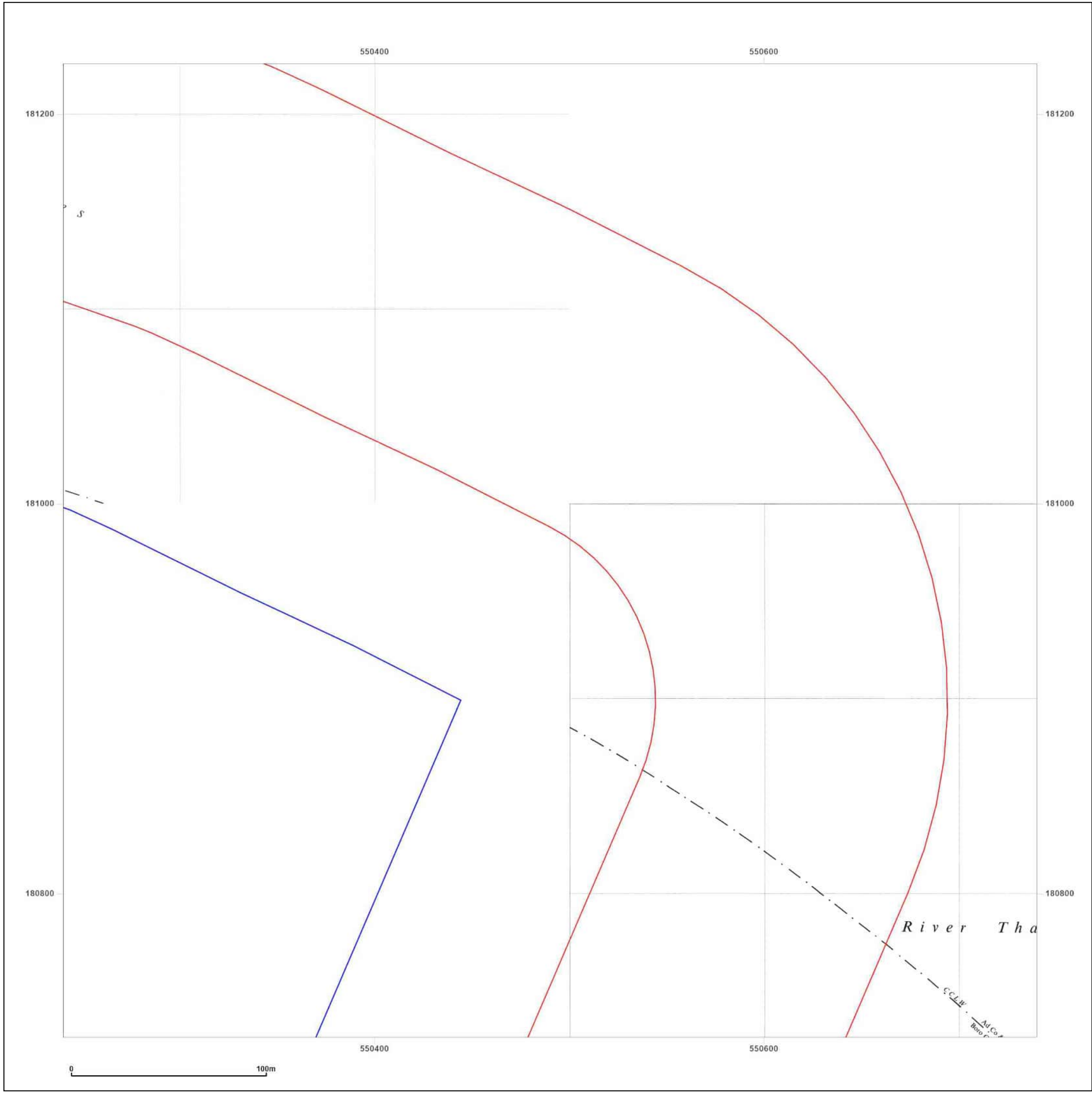


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

549656.6233563919,180548.34
620791927

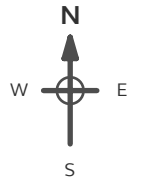
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Report Ref: GS-QCE-212-D95-XTT_1250_4_3
Grid Ref: 550490, 180976

Map Name: National Grid

Map date: 1975

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1958
Revised 1974
Edition N/A
Copyright 1975
Levelled 1968

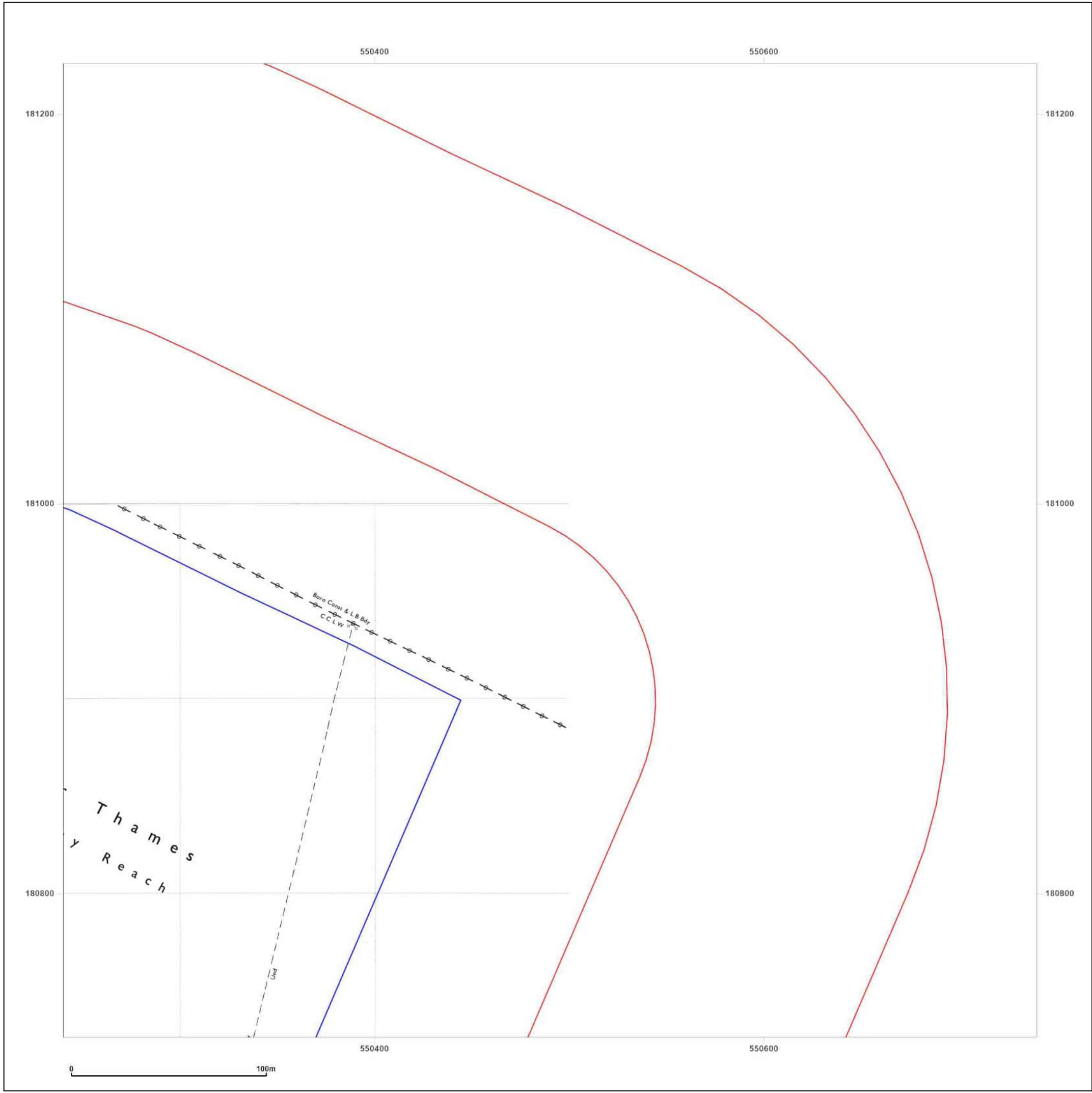


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Production date: 26 October 2023

Map legend available at: [REDACTED]



Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_4_3
Grid Ref: 550490, 180976

Map Name: National Grid

Map date: 1973-1976

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 1963
Revised 1975
Edition N/A
Copyright 1976
Levelled N/A

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

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1973
Levelled N/A

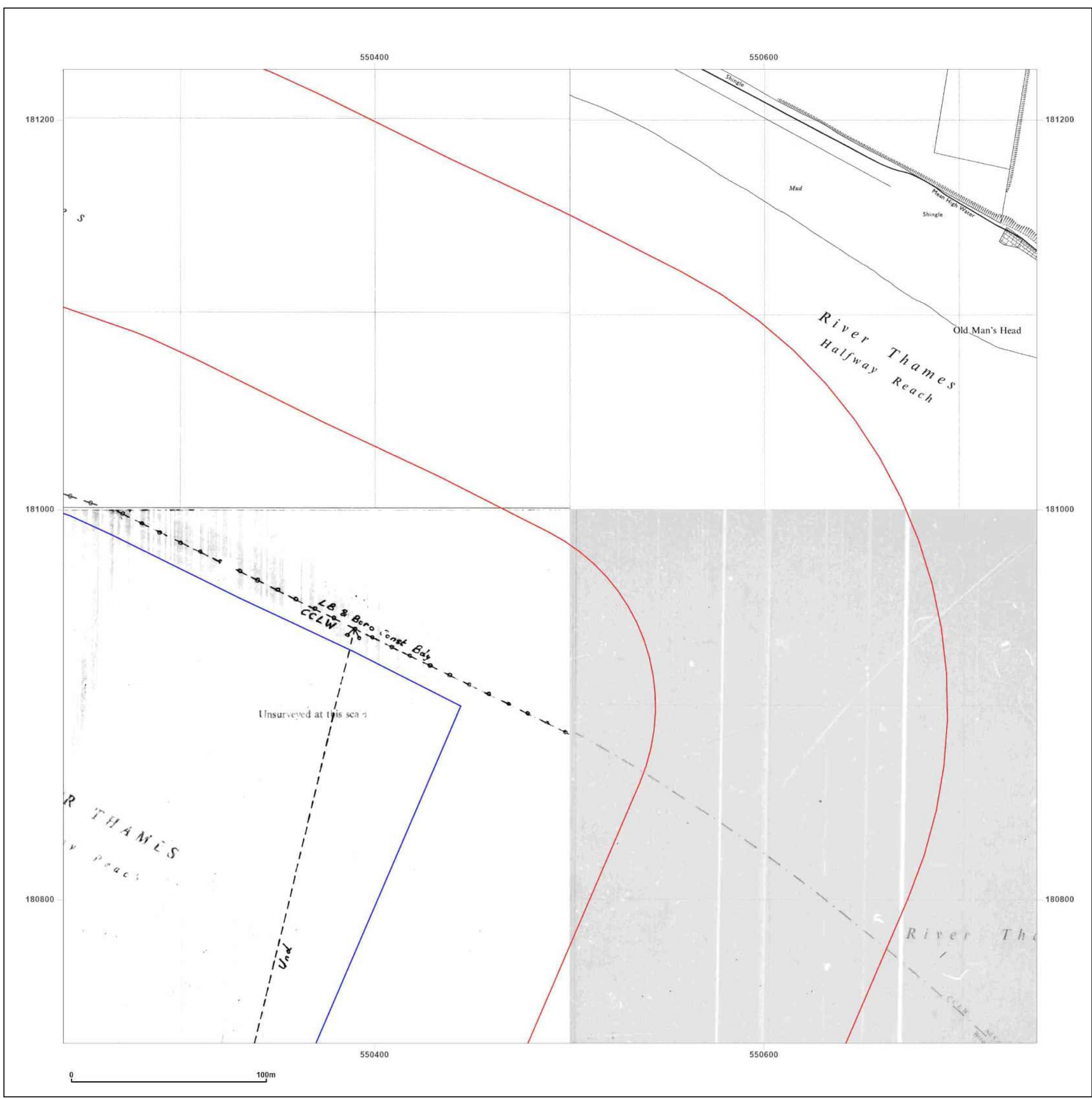


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Production date: 26 October 2023

Map legend available at:
[REDACTED]



Site Details:

549656.6233563919,180548.34
620791927

Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_4_3
Grid Ref: 550490, 180976

Map Name: National Grid

Map date: 1990-1992

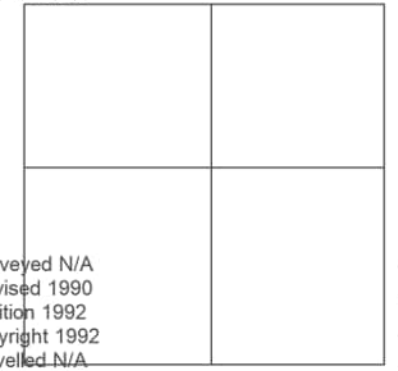
Scale: 1:1,250

Printed at: 1:2,000



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

Surveyed 1961
Revised 1990
Edition N/A
Copyright 1990
Levelled N/A



Surveyed N/A
Revised 1990
Edition 1992
Copyright 1992
Levelled N/A

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

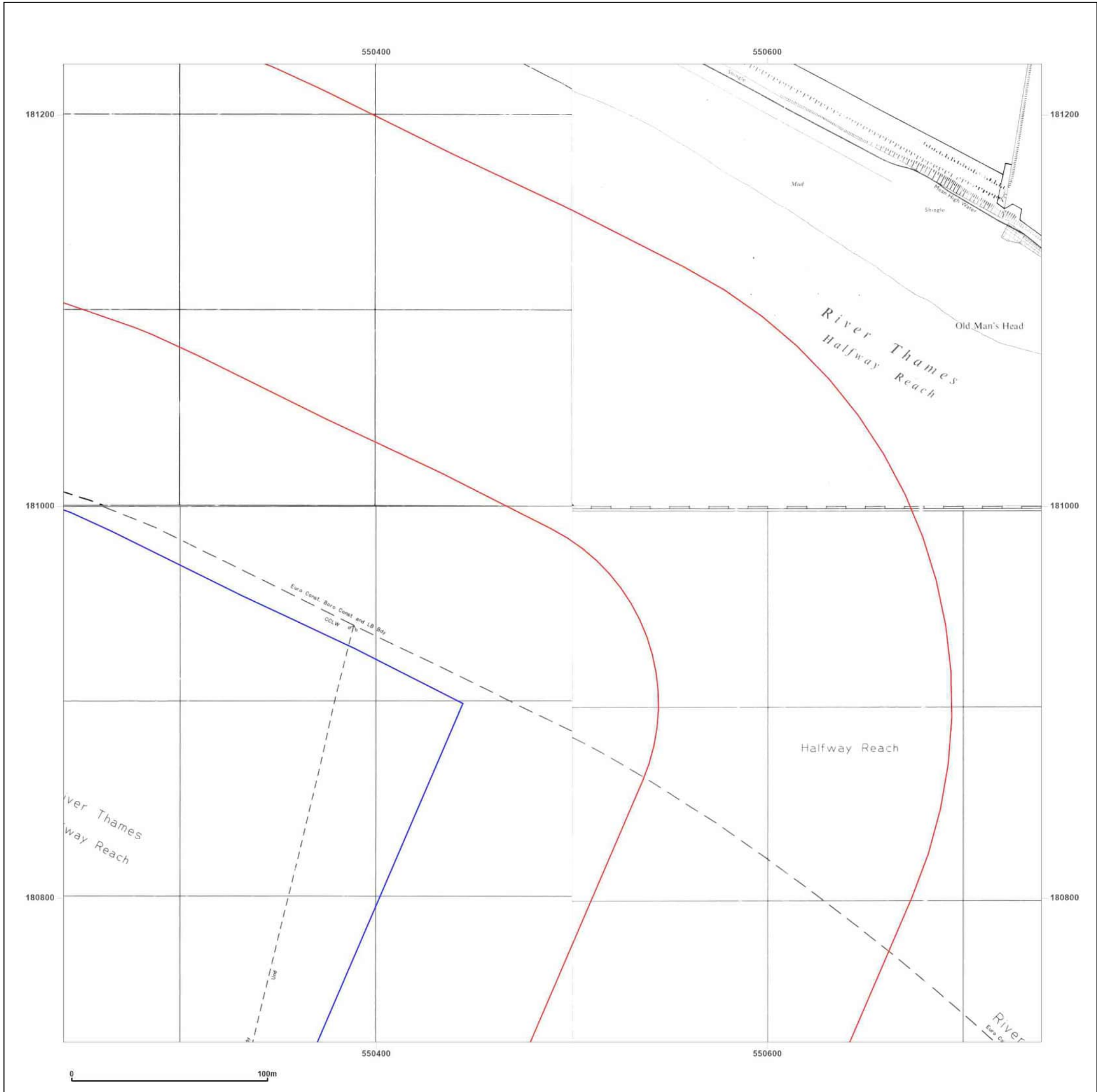


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Production date: 26 October 2023

Map legend available at: [REDACTED]

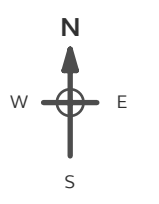



Site Details:

549656.6233563919,180548.34
620791927


Client Ref: Cory_Updated_Groundsure_Oct_2023
Report Ref: GS-QCE-212-D95-XTT_1250_4_3
Grid Ref: 550490, 180976

Map Name: National Grid
Map date: 1992
Scale: 1:1,250
Printed at: 1:2,000



<p>Surveyed N/A Revised N/A Edition N/A Copyright 1992 Levelled N/A</p>	
<p>Surveyed N/A Revised 1990 Edition 1992 Copyright 1992 Levelled N/A</p>	

Powered by

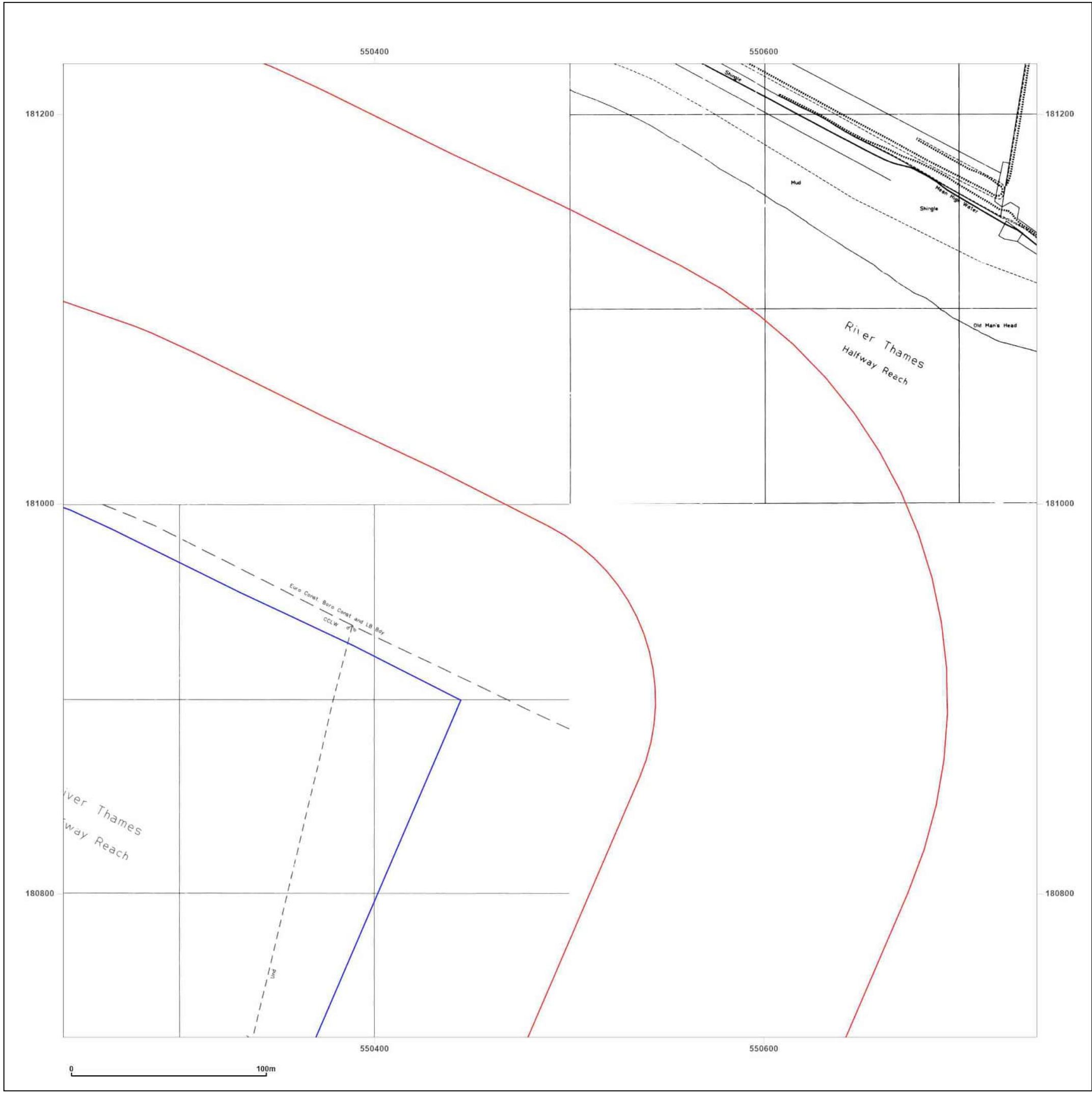


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Production date: 26 October 2023

Map legend available at: [REDACTED]

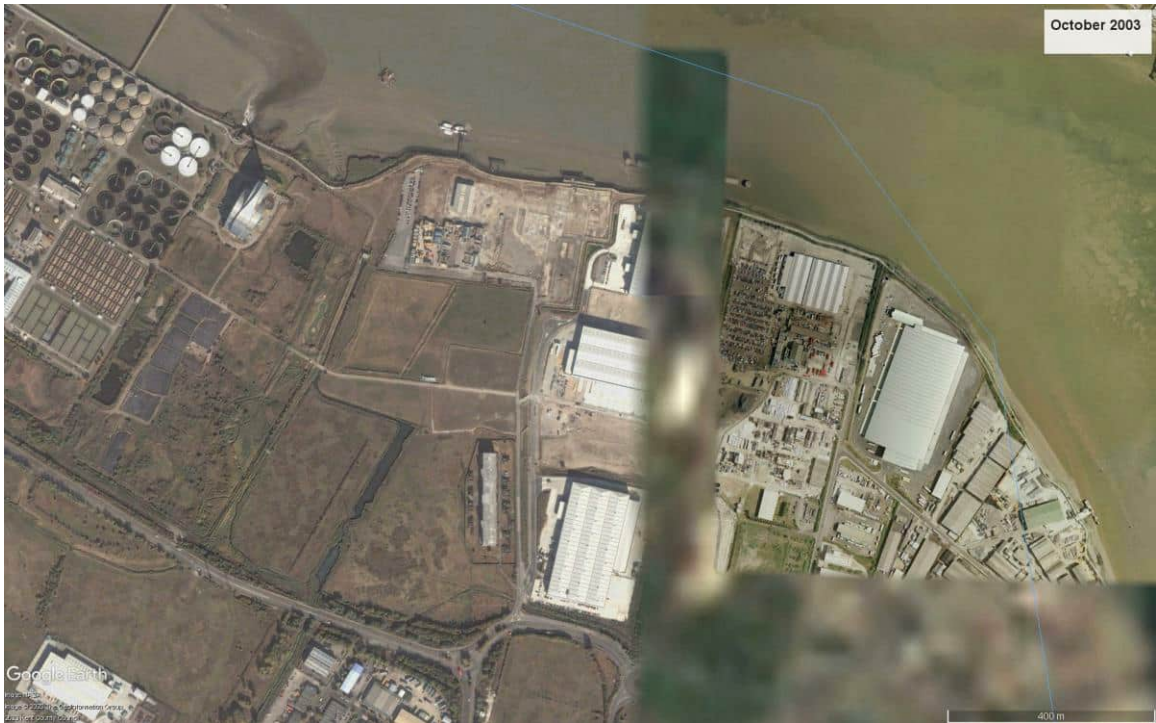


Annex F

SATELLITE IMAGERY



1



2



3



4



5



6



7



8



9



10



11



12



13



14



15



16



17

Annex G

HISTORICAL BOREHOLE LOGS

N.G.R. 4953
7987.

TQ47NE/153

RECORD OF BOREHOLE No. 62

Location : THAMESMEAD SPINE RD. (III)

SHEET ... OF ... 2 ...

Contract No. : CF669/1179

Borehole Dia : 0.20m.

Type of Boring : Shell & Auger

Casing : 0.20m. to 19.50m.

Date (started) : 22.10.73

Ground Level :

Date & Time	Depth of Casing	Water Level	SAMPLES			Legend	STRATA		DESCRIPTION OF STRATA
			Depth	Type	No.		Depth	Thickness	
22.10.73			0.20m. - 0.60m.	U	1		G. L.		
			0.65m.	D	2		1.40m.		Firm mottled brown silty CLAY
			1.50m. - 1.90m.	U	3		1.40m.		
			1.95m.	D	4		1.90m.		Soft grey slightly peaty very silty CLAY with traces of gravel and sand.
			2.90m. - 3.30m.	U	5		9.30m.		
			3.35m.	D	6		1.30m.		Soft dark brown clayey amorphous PLAT.
			4.40m. - 4.80m.	U	7		4.6m.		
			4.85m.	D	8				
			5.90m. - 6.30m.	U	9		3.25m.		Soft grey peaty clayey SILT
			6.35m.	D	10				with some vegetation.
			7.40m. - 7.80m.	U	11		7.85m.		
			7.85m.	D	12		0.85m.		Light green fine sandy SILT/silty fine SAND, with clayey bands and some medium dense sandy gravel.
			8.20m. (N=14)	D	13		8.70m.		
			8.70m.	B	14		5.20m.		Medium dense c.m. sandy c.m.f. rounded GRAVEL.
			9.20m. (N=12)	B	15		(10.00m)		

REMARKS: Water encountered at 7.85m. - sample taken.

SCALE 1 : 50

Foundation Engineering Ltd.

RECORD OF SHAFT OR BORE FOR MINERALS

Name of Shaft or Bore given by Geological Survey:

Thamesmead Estate - R.H. 104

TQ 48 SE/34

Name and Number given by owner:

Thamesmead Eastern Industrial Estate, Barking

Nat. Grid Reference

4951.8049

For whom made

G.L.C.

Town or Village

County

Exact site

Attach a tracing from a map, or a sketch-map, if possible.

1" N.S. Map No.

257

1" O.S. Map No.

Confidential or not

Purpose for which made

Trial

Ground Level at shaft bore relative to O.D.

If not ground level give O.D. of beginning of shaft bore

Made by

Date of sinking

1968

Information from

Date received

Examined by

SPECIMEN NUMBERS AND ADDITIONAL NOTES

FOR SITE MAP AND

R.H. 107 G 126

See TQ 47 NE

104

+ 2.4.

(For Survey use only)

GEOLOGICAL
CLASSIFICATION5'-0"
7'-0"

14'-0"

24'-0"

50'-0"

S.W.L.
4'-6"5'-0"
WSTopsoil and firm
brown and grey
mottled silty CLAYSoft brown
PEATSoft grey
organic silty
CLAYMedium dense
to dense brown
fine to coarse
GRAVEL
with a little
sand

THICKNESS

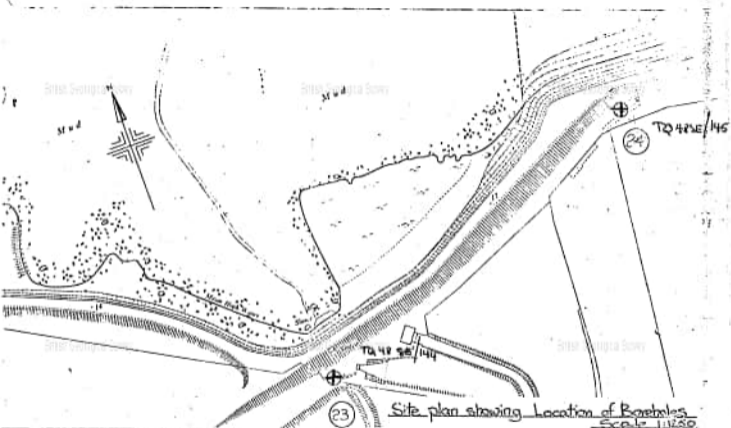
DEPTH

Ft.

in.

Ft.

in.



GROUND EXPERTISES Ltd.
60/61 High Street, Slough, Berks.

Drawn by: _____ Checked by: _____
Date: November 1971

Report No. 536b
Figure No. J

TO 412E/144-145

4971 8070
BOREHOLE SECTION SHEET.

LE GRAND, SUTCLIFF & GELL, LTD.

257

TQ 48 / 73
17
1926

CONTRACT NAME BELVEDERE (KENT) ORDER NO. 2370.

Bored for The Borax Consolidated Ltd.,
Address 16, Rastoeap, LONDON, E.C.
Address of Site At the factory of the above, Belvedere, Kent.
District or Town Belvedere. County Kent.
Standing Water Level 11'0 Feet Below Surface - Pumping W.L. - 11'0 Feet Below Surface
Dia. of Borehole 7 1/2" Inches, Yield of Water 3979 G.P.H.
O.D. of Size 4" approx Water Struck (1) 17'8" Fr. B.S. (2) 138' Fr. B.S. (3) 236' Fr. B.S.
Depth from surface to bottom of Dug Well 244' - 250'
Special Remarks Air Lift Pumping test carried out - yield as above,
A.L.P. to 100'0".

FULL DETAILED DESCRIPTION OF STRATA

THICKNESS
FEET INCHES
DEPTH BELOW SURFACE
FEET INCHES

No.	Boring	THICKNESS FEET INCHES	DEPTH BELOW SURFACE FEET INCHES
	Made Ground.	3 6	3 6
	Concrete.	2 0	5 6
	Timber and clay.	4 6	10 0
	Clay and peat.	7 6	17 6
	Peat.	4 0	21 6
	Clay and peat.	6 6	28 0
	Coarse Peat.	6 0	34 0
	Thames Ballast.	19 6	53 6
	Blue clay and pebbles. L.C.	24 6	78 0
	Green Sand and pebbles. A.C.	16 0	93 0
	Clay and shells.	13 0	106 0
	Hard and soft bands of Lignite	7 0	113 0
	Blue clay and shells.	6 0	119 0
	Woolwich & Reading beds. Very hard.	3 6	122 6
	Woolwich & Reading clay.	10 6	133 0
	Sandy clay and pebbles.	6 0	139 0
	Black pebbles.	3 0	142 0
	Sand and pebbles.	4 0	146 0
	Green sand.	15 0	161 0
	Hard green sand.	25 0	186 0
	Green flints.	1 0	187 0
	Chalk and flints.	113 0	300 0

River Drift
? Burial Channel
48

Chalk
392

Woolwich
Reading beds

Recent bed
with pebbles
bed at base

Upper Chalk.

94

SB. 4/107
LI/C.

For LeGrand, Sutcliff & Gell, Ltd.

TOTAL 300 0 / 300 0

2

257
17

TQ 48/73

Ref. 9509/30. 24th Oct. 1939Site: 300 ft from south bank of River Thames, near Norman
road, on what is known as Belvedere Mounds

Rest water level: 12 ft below ground level

Water level when

pumping 2500 gallons:
per hour: 70 ft below ground levelE112X N. 87 24.1' 2NE/E
6" = 1 mile

250 0 250 500 750 1000 1250 1500 1750 YARDS

SCALE: 6 INCHES = 1 MILE

BOREHOLE SECTION SHEET.

LE GRAND, SUTCLIFF & GELL, LTD.

257 57 139
19 10 26

CONTRACT NAME BELVEDERE (KENT) ORDER NO. 2370.

TQ48/73

17

Bored for The Borax Consolidated Ltd.,
Address 16, Eastcheap, LONDON, E.C.Address of Site At the factory of the above, Belvedere, Kent.
District or Town Belvedere. County Kent.

Standing Water Level 11'0" Feet Below Surface - Pumping W.L. - Feet Below Surface

Dia. of Borehole 7 1/2" Inches, Yield of Water 3979 G.P.H.

O.D. of Site + 9 approx Water Struck (1) 17'8" Ft. B.S. (2) 138' Ft. B.S. (3) 236' Ft. B.S. 244' - 250'

Depth from surface to bottom of Dug Well

Special Remarks Air Lift Pumping test carried out - yield as above.

A.L.P. to 100'0". N.B. TQ 4971 8070.

FULL DETAILED DESCRIPTION OF STRATA

THICKNESS
FEET INCHES
DEPTH BELOW
SURFACE
FEET INCHES

Kent 2466

No. Boring

Made Ground.

3 6 / 3 6 /

Concrete.

2 0 / 5 6 /

Timber and clay.

4 6 / 10 0 /

Clay and peat.

7 6 / 17 6 /

Peat.

4 0 / 21 6 /

Clay and peat.

6 6 / 28 0 /

Coarse Peat.

6 0 / 34 0 /

Thames Ballast.

19 6 / 53 6 /

Blue clay and pebbles.

24 6 / 78 0 /

Green Sand and pebbles.

15 0 / 93 0 /

Clay and shells.

13 0 / 106 0 /

Hard and soft bands of Lignite

7 0 / 113 0 /

Blue clay and shells.

6 0 / 119 0 /

Woolwich & Reading beds. Very hard.

3 6 / 122 6 /

Woolwich & Reading clay.

10 6 / 133 0 /

Sandy clay and pebbles.

6 0 / 139 0 /

Black pebbles.

3 0 / 142 0 /

Sand and pebbles.

4 0 / 146 0 /

Green sand.

15 0 / 161 0 /

Hard green sand.

25 0 / 186 0 /

Green flints.

1 0 / 187 0 /

Chalk and flints.

113 0 / 300 0 /

SB.4/107.

LI/C.

For LeGrand, Sutcliffe & Gell, Ltd.

TOTAL 300 0 / 300 0 /

Information from Sect 6 letter 8.11.58.

"..... conditions have not changed since no water has been abstracted from this well since January 1951.

The forced draught cooling tower which we installed has been in use since then, and is sufficient for dealing with our cooling water. The well is uncovered and the pipe lines and compressors are still in position, as an emergency for any breakdown in our present arrangements. Under the circumstances we consider that the well is only temporary out of action."

Disused. Tidal. Kere River Anchorage water quantity observations well.

Information for Kere R.A. Dec. 1971.

M.H. 23/3/72.



TQ48/73

257/17.

- Made Ground 5'-6"
- Alluvium 28'-6"
- Floodplain Terrace 19'-6"
- ? Part Laven Clay
and Blackchert Beds 24'-6"
- Woolwich Beds 68'-0"
- { Tharck Sands 40'-0"
- { Bullhead Bed 1'-0"
- Upper Chalk 113'-0"

257/17

Ref. 9509/30. 24^d Oct. 1939

Site: 300 ft from touch bank of River Thames, near Norman road, on what is known as Belvedere Marshes

Rest water level: 12 ft below ground level

Water level when pumping 2500 gallons: 70 ft below ground level per hour



Visited Feb. 26th. 1953.

Not in use - available in emergency.

Flood water entered.

Headness 40' total - permanent 50%
O.D. +9.

M/SF.

"Pumping equipment is still in position in order that we might pump in the case of an emergency but the well is temporarily out of action."
- Mr. L. S. R. O. K.

N.G.R. 4953
1987.

TQ 47 NE/153

RECORD OF BOREHOLE No. 46

Location : THAMESMEAD SPINE RD. (III)

SHEET... 2... OF... 2...

Contract No. : CF659/1179

Borehole Dia : 0.20m.

Type of Boring : Shell & Auger

Casing : 0.20m to 19.50m.

Date (started) : 22. 10. 73

Ground Level :

Date & Time	Depth of Casing	Water Level	SAMPLES			STRATA		DESCRIPTION OF STRATA
			Depth	Type	No	Legend	Depth	
22.10.73							(19.00m)	
			10.50m (N=19)	D	16			
			11.25m (N=21)	B	17			
			12.00m (N=24)	D	18			5.20m Medium dense c.m. sandy c.m.f. rounded GRAVEL.
13** 13**	12.50m 12.50m	3.02m 3.02m	12.75m (N=23)	B	19			
			13.50m (N=32)	D	20			
			14.25m (N=73, imp. 0.13m)	D	21		3.90m	
			14.50m (N=127)	B	22		14.40m	0.50m Very dense light green cemented SAND, SHELLS and black PEBBLES.
			15.15m (N=31/0.10m)	D	23			
			15.90m (N=74/0.15m)	B	24			Very dense grey silty fine SAND
			16.65m (N=184)	D	25			with shell fragments and c.m.f. black rounded pebbles.
			17.15m (N=158)	B	26			3.50m becoming green silty fine sand.
14** 25.10.73 08**	17.00m 17.00m	4.90m 4.90m	17.90m (N=140)	D	27		17.90m	
			18.65m	U* B	28			2.10m Very dense dark green silty fine SAND with bands of green silty clay and occ. black rounded pebbles.
			19.40m - 19.85m	U	29			
12**	19.50m	5.60m	20.00m	D	30		20.00m	

REMARKS:

U* - U4 failed, - bulk sample taken.

SCALE 1 : 50

Foundation Engineering Ltd.

Annex H

FLOOD MAP FOR PLANNING

Flood map for planning

Your reference
Cory DCO

Location (easting/northing)
549742/180477

Created
5 Mar 2024 11:55

**Your selected location is in flood zone 3
– an area with a high probability of flooding.**

This means:

- you may need to complete a flood risk assessment for development in this area
- you should ask the Environment Agency about the level of flood protection at your location and request a Flood Defence Breach Hazard Map (You can email the Environment Agency at: enquiries@environment-agency.gov.uk)
- you should follow the Environment Agency's standing advice for carrying out a flood risk assessment (find out more at www.gov.uk/guidance/flood-risk-assessment-standing-advice)

Notes

The flood map for planning shows river and sea flooding data only. It doesn't include other sources of flooding. It is for use in development planning and flood risk assessments.

This information relates to the selected location and is not specific to any property within it. The map is updated regularly and is correct at the time of printing.

Flood risk data is covered by the Open Government Licence which sets out the terms and conditions for using government data. <https://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/>

Use of the address and mapping data is subject to Ordnance Survey public viewing terms under Crown copyright and database rights 2022 OS 100024198. <https://flood-map-for-planning.service.gov.uk/os-terms>

Flood map for planning

Your reference

Cory DCO

Location (easting/northing)

549742/180477

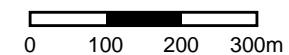
Scale

1:10000

Created

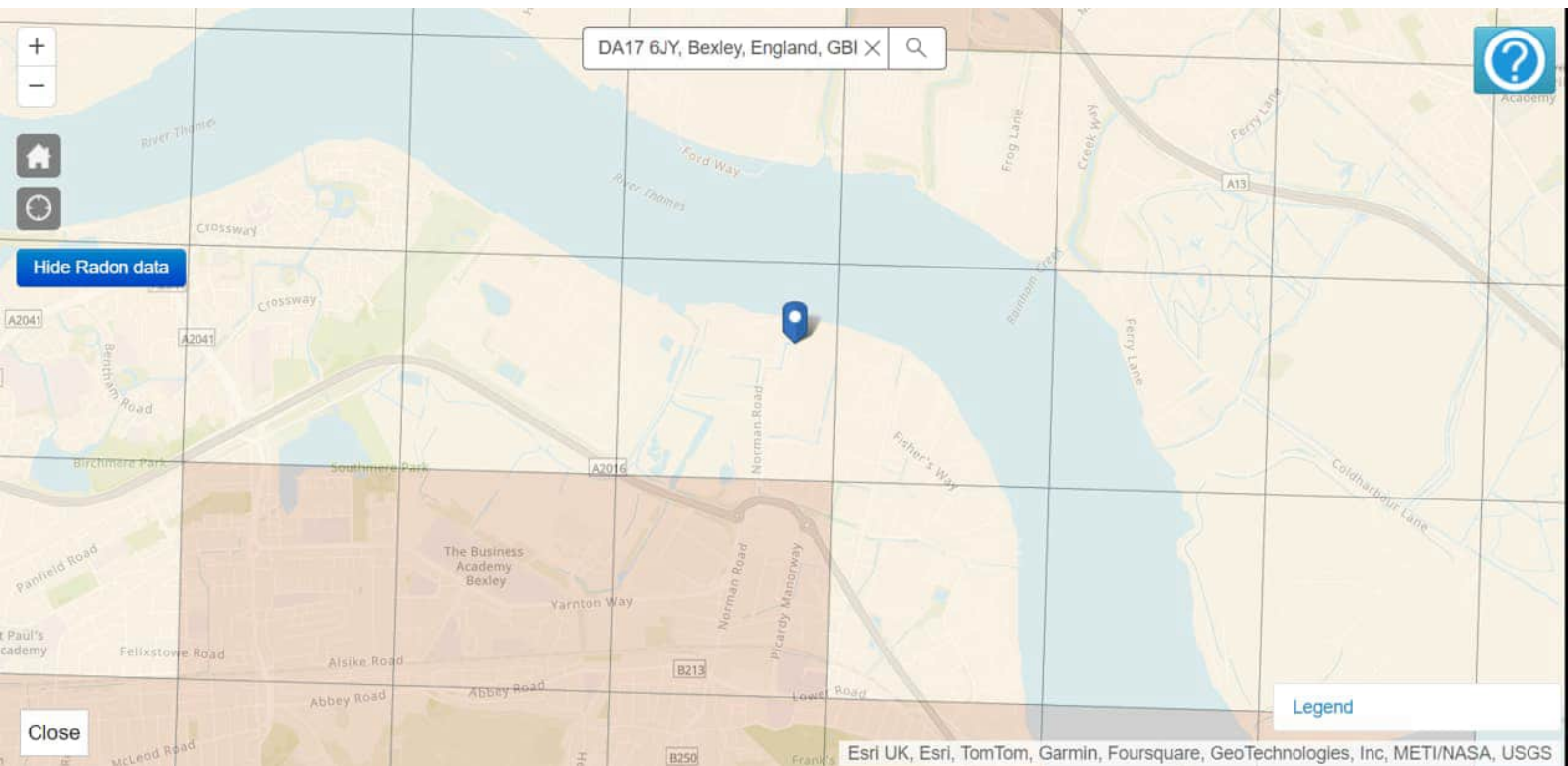
5 Mar 2024 11:55

-  Selected area
-  Flood zone 3
-  Flood zone 2
-  Flood zone 1
-  Flood defence
-  Main river
-  Water storage area



Annex I

RADON MAP



Annex J

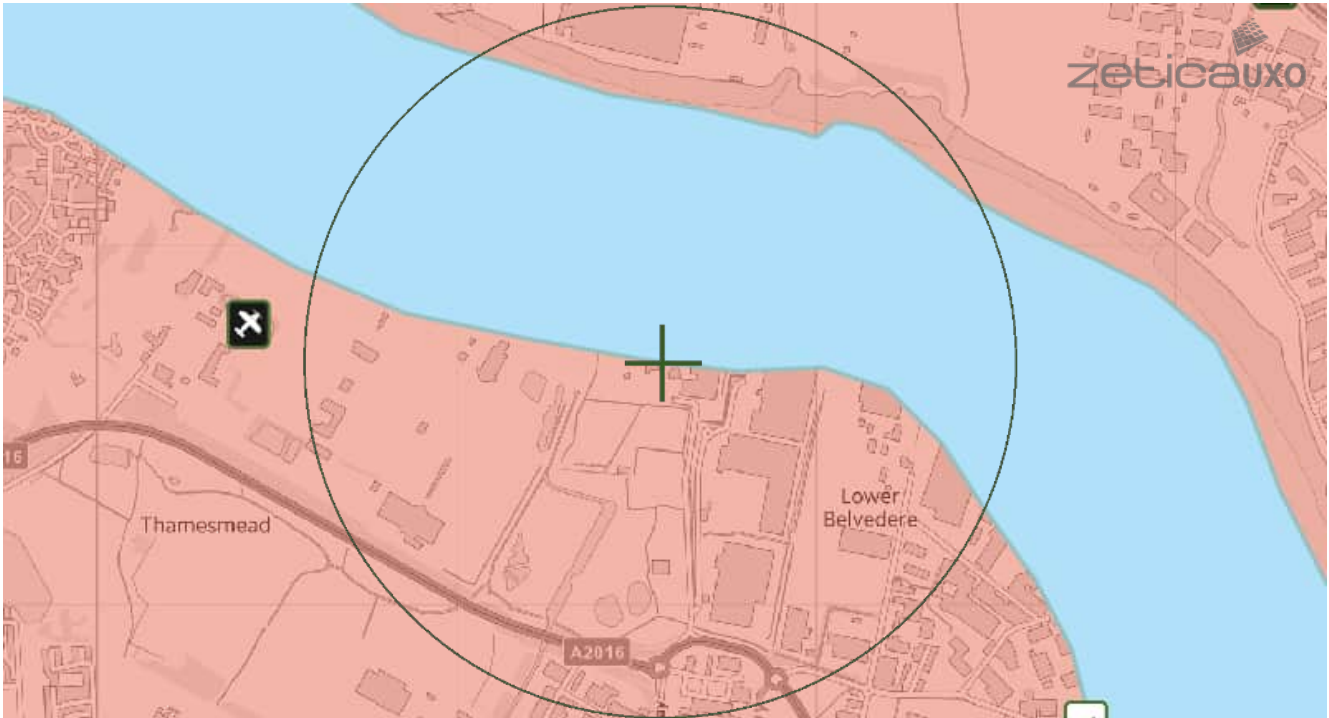
UXO MAP

UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 549580,180674



LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.

- military
- industry
- UXO find
- transport
- dock
- Luftwaffe targets
- utilities
- Bombing decoy
- other

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**

email: **uxo@zetica.com**

web: **www.zeticauxo.com**

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: (<https://zeticauxo.com/downloads-and-resources/risk-maps/>)

Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgment. The copyright remains with Zetica Ltd.

It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.

Annex K

CORRESPONDENCE

From: KSL Enquiries <[REDACTED]>
Sent: 15 December 2023 17:28
To: Cameron, Mai-An
Cc: Martyn, Joe
Subject: KSL 338716 AC - Cory Decarbonisation Project

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Mai-An Cameron,

RE: KSL 338716 AC - Cory Decarbonisation Project

Thank you for your enquiry which was received on 27 October 2023. We fully recognise we were unable to respond to your request within our usual timescales and apologise for any inconvenience it may have caused. This has been due to an increase in demand and resourcing issues within the Customers and Engagement team.

We respond to requests under the Freedom of Information Act 2000 and Environmental Information Regulations 2004.

Please find our responses to your queries below in purple:

- Does the Environment Agency know of any specific contamination issues associated with the above named site? We are interested in anything that could have led to contamination of soil or groundwater either beneath the site or within a 1km radius?
Land that may be affected by contamination is dealt with by Local Authorities, you should contact to the Contaminated Land officer in the Environmental health Department in the first instance. The EA has no record of any sites being determined as Contaminated Land under S78 of the Environmental protection act in this vicinity and is not dealing with any designated Special Sites under that Regime at this location.
Further information about site investigations carried out at your site of interest may be held on the public register related to planning and development at the Local Authority Planning Department.
- Do you hold any records of water quality within 1km of the site?
Please consult the Water Quality Archive at the following link: [Open WIMS data](#)
- Are you aware of the presence of above ground storage tanks/gas meters on adjacent sites and are you aware of any spills or leaks associated with these?
Please refer to Local Authority and refer to [Public Registers Online \(data.gov.uk\)](#)
Pollution incident information can be obtained online at <https://data.gov.uk/dataset/c8625e18-c329-4032-b4c7-444b33af6780/environmental-pollution-incidents-category-1-and-2>.
- Are there any records of landfill or waste transfer activities within 500m of the site?
Our records have not identified any historic landfills within approximately 250m of this location.
Some data regarding historic landfill sites can be obtained from the following links:
<https://data.gov.uk/dataset/17edf94f-6de3-4034-b66b-004ebd0dd010/historic-landfill-sites>
<https://environment.data.gov.uk/DefraDataDownload/?mapService=EA/HistoricLandfill&Mode=satial>

Local Authority Environment Health departments should hold information on historic landfills in their area.

Information on current permitted sites can be obtained online at [Public Registers Online \(data.gov.uk\)](#)
- Have there been any soil or groundwater remedial works carried out at the site or within 500m of the site?
Land that may be affected by contamination is dealt with by Local Authorities, you should contact to the Contaminated Land officer in the Environmental health Department in the first instance. The EA has no record of any sites being determined as Contaminated Land under S78 of the Environmental protection act in this vicinity and is not dealing with any designated Special Sites under that Regime at this location.
Further information about site investigations carried out at your site of interest may be held on the public register related to planning and development at the Local Authority Planning Department.

Please refer to the [Open Government Licence](#) which explains the permitted use of this information.

Please be aware that many of our datasets are now available online. Simply visit environment.data.gov.uk

If you have any further queries or if you'd like us to review the information we have provided under the Freedom of Information Act 2000 and Environmental Information Regulations 2004 please contact us within two months and we will happily do this for you.

Kind regards,

Alan Clarke
Customers & Engagement Officer
Environment Agency | 02084 746848 – If you are unable to reach us, please contact our National Customer Contact Centre on 03708 506 506
Customers and Engagement Team | Kent South London & East Sussex
Orchard House | Endeavour Park | London Road | West Malling | Kent | ME19 5SH



From: Cameron, Mai-An <[REDACTED]>
Sent: Friday, October 27, 2023 11:55 AM
To: KSLPlanning <[REDACTED]>
Cc: Warhurst, Jenny <[REDACTED]> Harris, Sophie <[REDACTED]> Evans, Lydia <[REDACTED]>
Subject: Cory Decarbonisation Project - Environment Agency - Request for information regarding Contamination

You don't often get email from [REDACTED]. [Learn why this is important](#)

Good morning,

I am currently undertaking contaminated land consultancy work for the Cory Decarbonisation Project. The Cory Decarbonisation Project (hereafter referred to as the "Proposed Scheme") is currently being designed to capture the carbon emissions resulting from the energy recovery facilities at Riverside (including the existing Energy from Waste Facility (EfW) also known as Riverside 1 and also the recently consented Riverside 2 facility that is currently under construction). The Proposed Scheme will involve the construction and operation of a new Carbon Capture Facility alongside new marine infrastructure comprising of a new marine export jetty within the River Thames. The Proposed Scheme is to be located close to Cory's Riverside 1 and Riverside 2 facilities, as shown within the recently submitted Preliminary Environmental Information Report (available at this [REDACTED]).

I am enquiring as to whether the Environment Agency hold any pertinent records for the Site regarding the following:

- Does the Environment Agency know of any specific contamination issues associated with the above named site? We are interested in anything that could have led to contamination of soil or groundwater either beneath the site or within a 1km radius?
- Do you hold any records of water quality within 1km of the site?
- Are you aware of the presence of above ground storage tanks/gas meters on adjacent sites and are you aware of any spills or leaks associated with these?
- Are there any records of landfill or waste transfer activities within 500m of the site?
- Have there been any soil or groundwater remedial works carried out at the site or within 500m of the site?

If you need any further information or have any queries regarding this request please do not hesitate to contact me.

Kind regards,
Mai-An



Mai-An Cameron
Assistant Geo-Environmental Consultant
MSci FGS



WSP in the UK
2 London Square
Cross Lanes
Guildford GU1 1UN



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From: Cameron, Mai-An
Sent: 27 October 2023 12:02
To: 'Smith, Ian'
Cc: Warhurst, Jenny; Harris, Sophie; [REDACTED]; Evans, Lydia
Subject: RE: LBB Cory Contaminated Land request for information

Good afternoon Ian,

I have not yet received a response regarding the below.

We require any information the council may hold regarding contamination for the next stage of the Proposed Scheme. Could you therefore forward our enquiry to the Council's Contaminated Land Officer please?
The recently submitted Preliminary Environmental Information Report (available at this [REDACTED]) shows the location of the Proposed Scheme.

Kind regards,
Mai-An

Mai-An Cameron
Assistant Geo-Environmental Consultant
MSci FGS

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Guildford GU1 1UN

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From: Cameron, Mai-An
Sent: Tuesday, February 28, 2023 9:44 AM
To: Smith, Ian [REDACTED]
Cc: Warhurst, Jenny [REDACTED]; Harris, Sophie [REDACTED]; Evans, Lydia [REDACTED]
Subject: RE: LBB Cory Contaminated Land request for information

Morning Ian,

Thank you for your response.

The location plan is provided here from the PINS website: <https://infrastructure.planninginspectorate.gov.uk/projects/south-east/cory-decarbonisation-project/?ipcsection=docs> if you could forward to the Council's Contamination Officer please.

Kind regards,
Mai-An

Mai-An Cameron
Graduate Geo-Environmental Consultant
MSci FGS

WSP in the UK
2 London Square
Cross Lanes
Guildford GU1 1UN

From: Smith, Ian [REDACTED]
Sent: 27 February 2023 15:57
To: Cameron, Mai-An [REDACTED]
Cc: Warhurst, Jenny [REDACTED]; Harris, Sophie [REDACTED]; Evans, Lydia [REDACTED]
Subject: RE: LBB Cory Contaminated Land request for information

Good afternoon Mai-an

My apologies for not coming back to you sooner but I have only just received the responses I needed in order to be able to answer your questions.

With regard to contamination because an approx. location of the Carbon and Utilisation Facility and a Hydrogen Production Plant has not been provided, the Council's Contamination Officer cannot answer your questions completely. If you could give me an approximate location of the facility as a starting point I will be able to go back and perhaps get you more precise answers.

With regard to your building control questions I have received the following answers:

The ground conditions in the area are typically a mixture of made ground, clay, and underlying peat to depths of up to approximately 12m in places. The vast majority of sites in this part of the borough opt for a pile foundation design to overcome issues in relation to poor substrata. Raft foundations are occasionally specified for smaller projects. This is true for the majority of Belvedere north of Abbey Road and Lower Road.

Localised borehole investigation would be necessary on the proposed site to allow for a designed foundation solution from a structural engineer. Industrial projects locally have also seen it necessary to allow for piled road bases leading to and around the site.

Some free borehole scans can be found here:

Many Thanks

Ian Smith
(ee-in smith, he/his)
Principal Planning Officer
Development Management

London Borough of Bexley

Direct Dial: [REDACTED]



Any advice follows an initial officer assessment of the information you have provided. Every formal application is subject to a statutory assessment process and it is only then that a full assessment of all the material planning considerations can be made in the context of relevant development plan policies. Some important considerations may only arise or become apparent during this formal process, which includes consultation with residents and other third parties affected by the development. This officer advice is therefore given for your general guidance in the preparation of a future planning application or proposal. The advice does not prejudice the Council's consideration or decision on any future application that may be submitted.

From: Cameron, Mai-An <[REDACTED]>
Sent: 13 February 2023 15:16
To: Smith, Ian <[REDACTED]>
Cc: Warhurst, Jenny <[REDACTED]>; Harris, Sophie <[REDACTED]>; [REDACTED]; Evans, Lydia <[REDACTED]>
Subject: LBB Cory Contaminated Land request for information

Good afternoon Ian,

I am currently undertaking contaminated land consultancy work for the Cory Decarbonisation Project. The Cory Decarbonisation Project (hereafter referred to as the "Proposed Scheme") will involve the construction and operation of a new Carbon and Utilisation Facility and a Hydrogen Production Plant alongside new marine infrastructure comprising of a new marine export jetty within the River Thames. The Proposed Scheme is likely to be located close to Cory's Riverside 1 and Riverside 2 facilities. Please see the relevant Section 35 [here](#) and which contains further information.

We have three Ground Investigation reports from the Riverside 2 application that will inform our EIA Scoping Report Chapter and Preliminary Risk Assessment. We would like to check the following please.

Please could I enquire as to whether the LBB have records regarding the following:

- Does the LBB know of any instances (e.g. including former site uses, pollution incidents, landfill sites) that could have led to contamination of soil or groundwater beneath the site or within a 500 m radius?
- Are you aware of the presence of above ground storage tanks/gas meters on adjacent sites and are you aware of any spills or leaks associated with these?
- Whether the site has been or is likely to be designated as Contaminated Land under Part IIA of the Environmental Protection Act 1990?
- Are there any records of landfill or waste transfer activities within 500m of the site?
- Have there been any soil or groundwater remedial works carried out at the site or within 500m of the site?

Additionally, I understand that there may be Building Control Officers within the LBB who may be able to answer the following:

- What are the typical foundation types used for buildings in the area?
- Are there any particular aspects of the geology that typically cause problems for foundation design in the local area?
- Are you aware of any solution features (particularly in chalk strata) in the area that might be of interest?
- Are you aware of any local problems or issues regarding stability (for example related to made ground)?

Kind regards,
Mai-An Cameron

Mai-An Cameron
Graduate Geo-Environmental Consultant
MSci FGS

T: [REDACTED]

WSP in the UK
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Cross Lanes
Guildford GU1 1UN

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